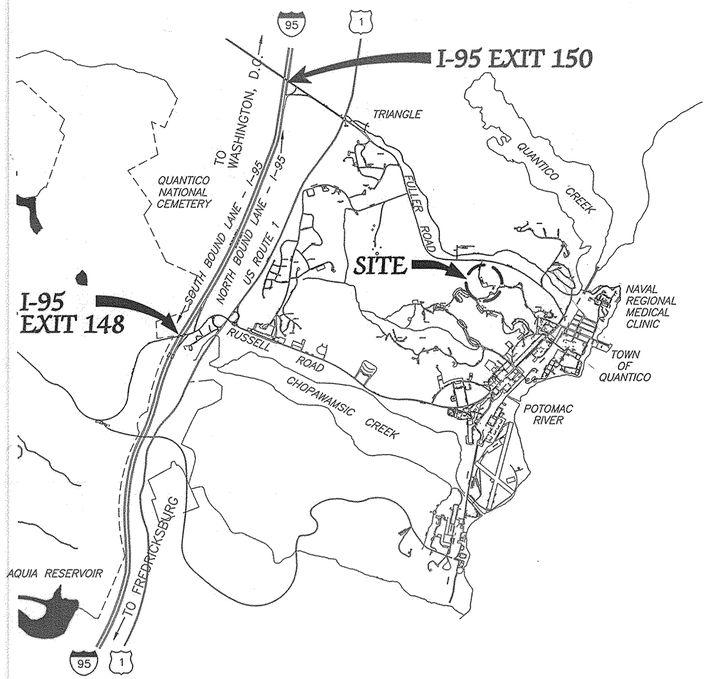
REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL

BUILDING 15

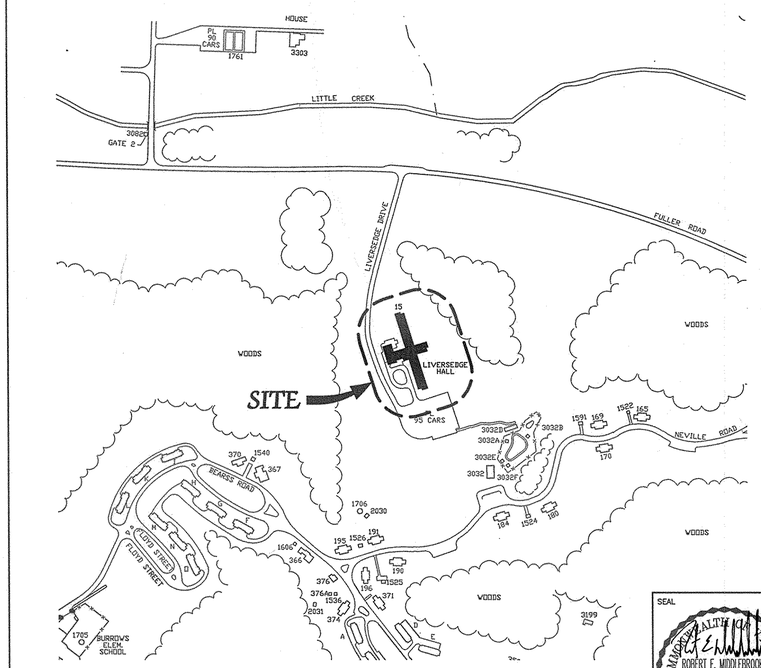
MARINE CORPS COMBAT DEVELOPMENT COMMAND

QUANTICO, VIRGINIA

QU0200M QU0240R
AE CONTRACT NO.: N62477-99-D-1064
CONSTRUCTION CONTRACT NO.: N62477-02-C-1015
CLARK NEXSEN PROJECT NO. 1691.2



VICINITY MAP
NO SCALE



SITE MAP
NO SCALE

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
2 MAY 2003
ARCHITECT

CLARK·NEXSEN
Architecture & Engineering

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SHEET NO. GI001

DES	LMS				
DRWN	MOH				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: ROICC — DATE 07 July 03
SATISFACTORY TO: SAFETY — DATE 8 July 03
SATISFACTORY TO: CUSTOMER — DATE 7 July 03
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE 9 JUL 03
SATISFACTORY TO: PWO / OICC — DATE 9 JUL 03
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE 8 Jul 03

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TITLE SHEET

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182985

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 1 OF 98

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NAVFAC NO.	SHEET NO.	DRAWING NO.	DRAWING TITLE
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SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK•NEXSEN
Architecture & Engineering

SHEET NO. GI002

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES LMS
DRWN MOH
CHECKED ARCH WHH, ELEC JRW, MECH JLD, CIVIL RLB, CONST JVA

SATISFACTORY TO: ___ DATE — ROICC
SATISFACTORY TO: ___ DATE — SAFETY
SATISFACTORY TO: ___ DATE — CUSTOMER
SATISFACTORY TO: ___ DATE — FIRE INSPECTOR
SATISFACTORY TO: ___ DATE — DIRECTOR ENGINEERING DIV.
SATISFACTORY TO: ___ DATE — PWO / OICC
SATISFACTORY TO: ___ DATE — FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

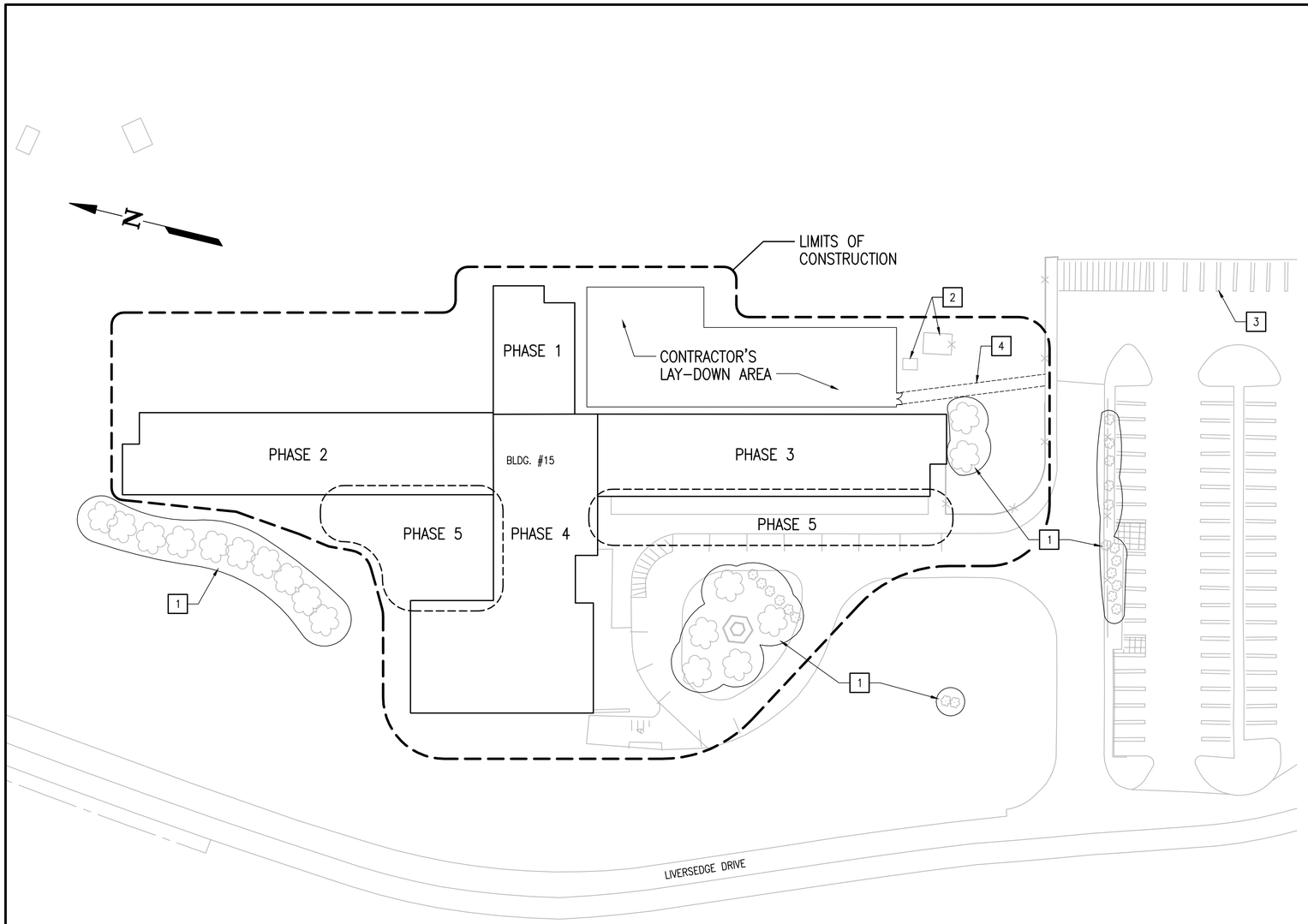
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

INDEX OF DRAWINGS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182986

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 2 OF 106



MATERIALS LEGEND

- GROUT
- GYPSUM WALLBOARD/ PLASTER
- CONCRETE
- FINISHED WOOD
- PLYWOOD
- CONTINUOUS WOOD BLOCKING
- INTERRUPTED WOOD BLOCKING
- ACOUSTICAL TILE
- CARPET
- BRICK VENEER
- CONCRETE MASONRY

ABBREVIATIONS LEGEND

@	AT		
ACT	ACOUSTICAL CEILING TILE	FLR	FLOOR
		GALV	GALVANIZED
AFF	ABOVE FINISH FLOOR	GWB	GYPSUM WALLBOARD
BLDG	BUILDING	HR	HOUR
℄	CENTER LINE	MAX.	MAXIMUM
CJ	CONTROL JOINT	MTL	METAL
CONC	CONCRETE	N.I.C.	NOT IN CONTRACT
CPT	CARPET	O.C.	ON CENTER
DIA	DIAMETER	O.H.	OPPOSITE HAND
ELEV	ELEVATION	SHT	SHEET
ETR	EXISTING TO REMAIN	SIM	SIMILAR
EXIST	EXISTING	SL	SLOPE
EXP	EXPOSED	TYP	TYPICAL
EXT	EXTERIOR	VCT	VINYL COMPOSITION TILE
FF	FINISH FLOOR		

SYMBOLS LEGEND

- 11 — COLUMN REFERENCE LINE (CENTER LINE OF COLUMN)
- 110A — DOOR NUMBER
- X — DEMOLITION NOTE
- X — WORK NOTE
- 100 — ROOM NUMBER
- A / 1 — WINDOW LETTER / LOUVER NUMBER
- A.1 — WALL/PARTITION TYPE
- DIRECTION OF SLOPE
- MATCHLINE — MATCH LINES

WALL/PARTITION
- EXISTING TO REMAIN
- DEMOLITION
- NEW CONSTRUCTION

DOORS, FRAMES & HARDWARE
EXISTING TO REMAIN | DEMOLITION | NEW CONSTRUCTION

DETAIL
A1 — DETAIL NUMBER
AE101A | AE102 — SHEET WHERE SHOWN / SHEET WHERE TAKEN

BUILDING SECTION
A1 — SECTION NUMBER
AE101A | AE102 — SHEET WHERE SHOWN / SHEET WHERE TAKEN

WALL SECTION
A1 — SECTION NUMBER
AE101A | AE102 — SHEET WHERE SHOWN / SHEET WHERE TAKEN

INTERIOR ELEVATION
A1 / A4 A–101 A2 / A3 — SHEET WHERE SHOWN / ELEVATION NUMBER

PHASING NOTES

1. PROTECT TREES (ALL ARE TO BE LEFT IN PLACE) THAT ARE WITHIN THE AREA OF CONSTRUCTION AND WHICH MAY BE DAMAGED DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
2. PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION. SEE CIVIL DRAWINGS.
3. CONTRACTOR PARKING AS DESIGNATED BY CONTRACTING OFFICER.
4. TEMPORARY ACCESS LANE AND GATE. PREPARE AND RESTORE AFTER CONSTRUCTION.

GENERAL NOTES

1. DIMENSIONS FOR WORK IN AND AROUND EXISTING CONSTRUCTION SHALL BE CONSIDERED PLUS OR MINUS.
2. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS PRIOR TO FABRICATION OF ANY MATERIALS OFF SITE.
3. PLAN DIMENSIONS ARE FROM FACE OF STUD, MASONRY OR EXISTING FINISH SURFACES UNLESS OTHERWISE NOTED.
4. ALL MATERIALS SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING AND/OR TO BE RELOCATED.
5. EXISTING WORK, CUT, ALTERED OR TEMPORARILY REMOVED AND REPLACED, AND ALL WORK REMAINING IN PLACE BUT DAMAGED OR DEFACED BY REASONS OF THE WORK DONE UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER. IF UPON REMOVAL OF EXISTING WORK, DISCOLORED MATERIALS ARE EXPOSED, SUCH SURFACES SHALL BE REFINISHED OR MATERIALS REPLACED AS NECESSARY TO MAKE THE WORK UNIFORM IN TEXTURE AND APPEARANCE.

SEAL: COMMONWEALTH OF VIRGINIA — ROBERT E. MIDDLEBROOKS — No. 6324 — ARCHITECT

CLARK•NEXSEN
Architecture & Engineering

SHEET NO. G1003

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER — DATE
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES RLB
DRWN MH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

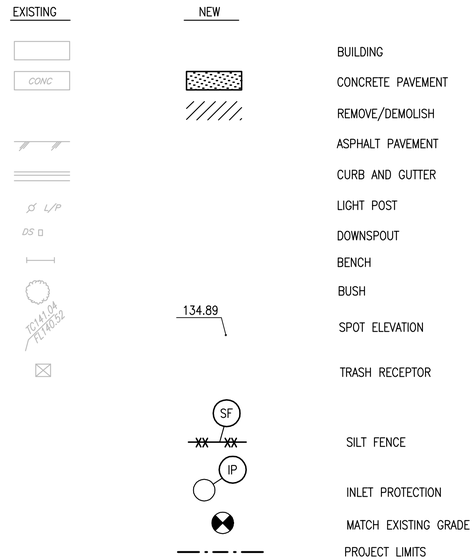
REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGENDS, GENERAL NOTES AND CONSTRUCTION PHASING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182987

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 3 OF 106

LEGEND (FOR C SHEETS ONLY)



ABBREVIATIONS (FOR C SHEETS ONLY)

CONC.	CONCRETE
DS	DOWNSPOUT
F.F.E.	FINISHED FLOOR ELEVATION
FL	FLOW LINE
L/P	LIGHT POLE
TC	TOP OF CURB

GENERAL NOTES

1. ALL AREAS OUTSIDE THE PROJECT LIMITS DISTURBED BY CONSTRUCTION OR MOBILIZATION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS SPECIFIED OTHERWISE.
2. EXISTING CONDITIONS SHOWN HEREON ARE BASED ON RECORD DOCUMENTS AND FIELD MEASUREMENTS TAKEN BY CLARK NEXSEN ON SEPTEMBER 26, 2002. THIS SITE PLAN DOES NOT GUARANTEE THE EXISTENCE OR NONEXISTENCE, SIZE, TYPE, DEPTH, MATERIAL OR LOCATION OF ANY UNDERGROUND UTILITIES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY LOCATIONS OF THESE ITEMS AND OTHER FIELD CONDITIONS, PRIOR TO CONSTRUCTION. ALL UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON ARE TO BE CONSIDERED APPROXIMATE LOCATIONS.
3. ELEVATIONS SHOWN ON PLANS HEREON ARE BASED ON THE LOBBY F.F.E=135.00 FEET.

EROSION AND SEDIMENT CONTROL NOTES

1. TOTAL LAND DISTURBED DOES NOT EXCEED 10,000 SF, THUS THE PROJECT DOES NOT REQUIRE A FORMAL E&SC PLAN.
2. EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT INCLUDE SILT FENCE AND INLET PROTECTION (AS NOTED ON THE PLANS). ALL MEASURES WILL BE INSTALLED AND MAINTAINED PER THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL LAW AND REGULATIONS (VESCLR) AND THE VIRGINIA SEDIMENT AND CONTROL HANDBOOK, 1992 EDITION (VESCH).
3. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
4. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
5. SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
6. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT L. BURKHOLDER
No. 029191
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
C-001

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO:
FIRE INSPECTOR

DES RLB
DRWN RHN
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

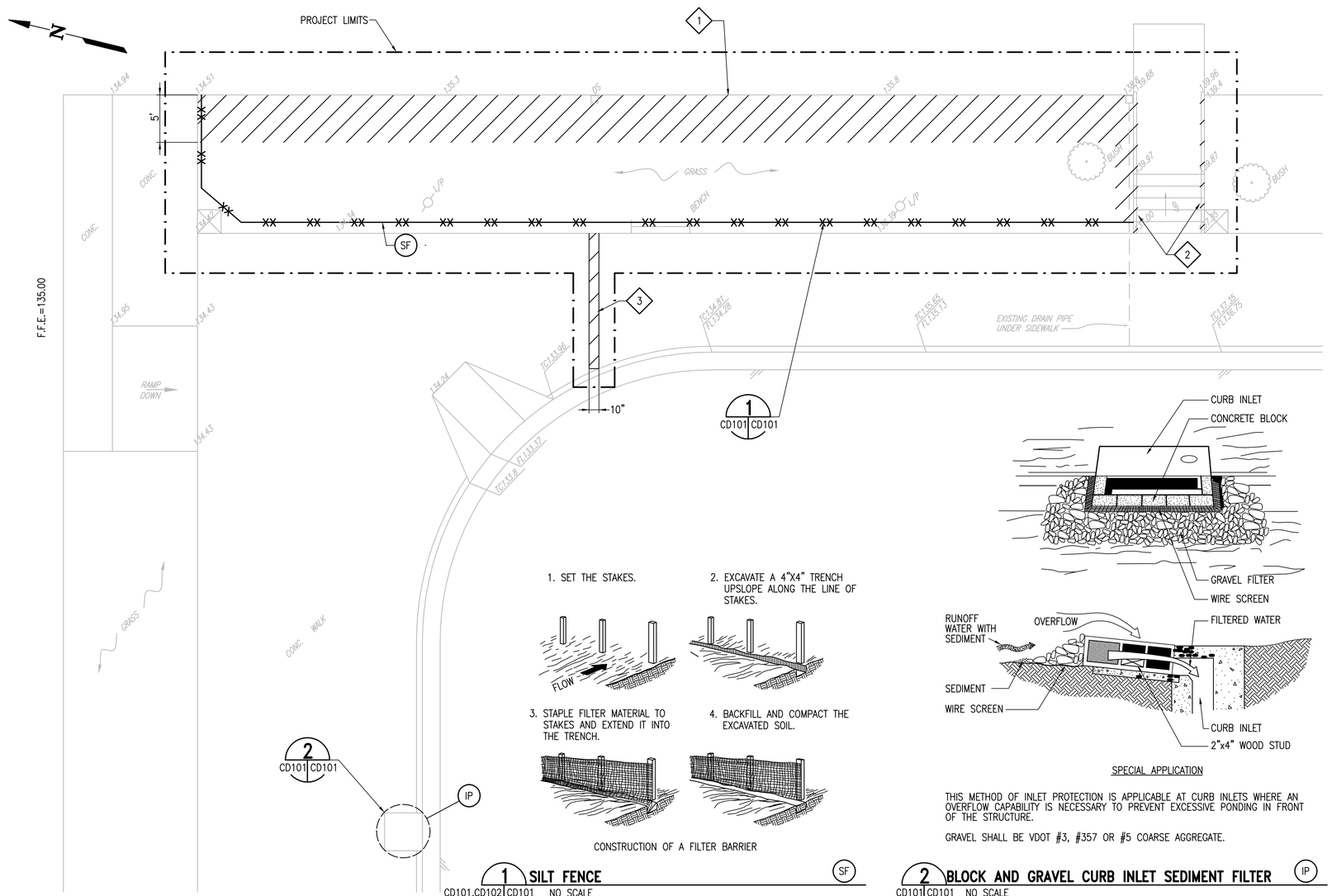
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGEND, ABBREVIATIONS & GENERAL NOTES

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182988

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 4 OF 106



CONSTRUCTION OF A FILTER BARRIER

SPECIAL APPLICATION

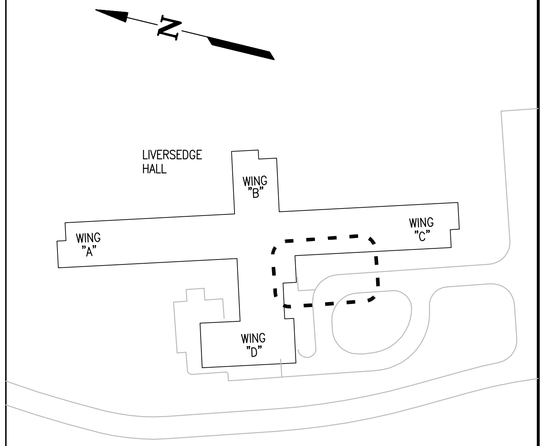
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.

GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

1 SILT FENCE (SF)
CD101,CD102 | CD101 NO SCALE

2 BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER (IP)
CD101 | CD101 NO SCALE

KEYPLAN (NO SCALE)



GRAPHIC SCALE

1"=5' 0 5' 10' 20'

DEMOLITION NOTES

1. STRIP TOPSOIL, 4" DEPTH
2. REMOVE HANDRAILS
3. SAWCUT SIDEWALK AND CURB

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT L BURKHOLDER
No. 029191
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CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
CD101

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
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DES RLB
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

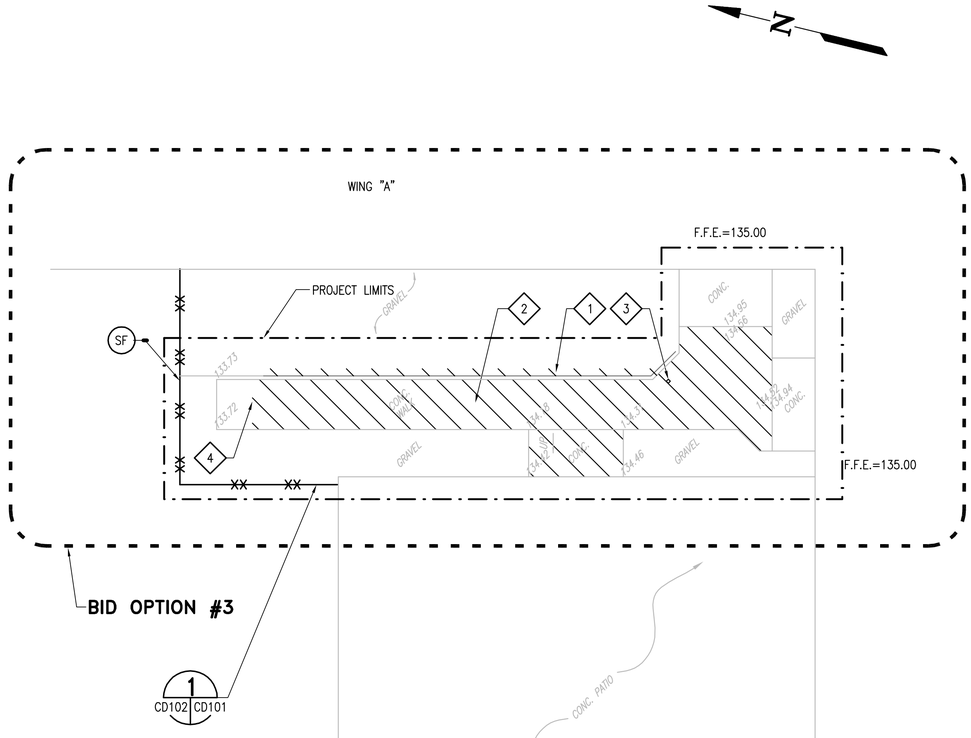
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

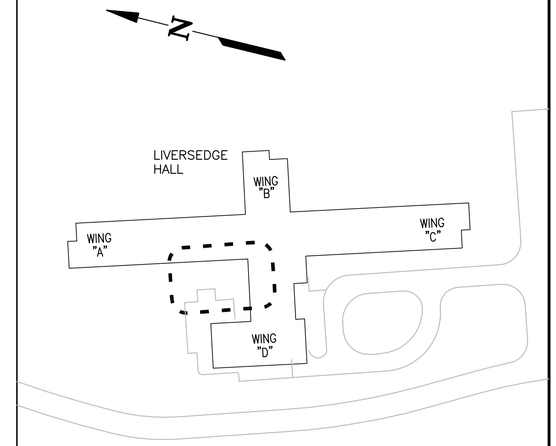
EXISTING CONDITIONS, DEMOLITION PLAN AND EROSION & SEDIMENT CONTROL PLAN

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182989

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 5 OF 106



KEYPLAN (NO SCALE)



GRAPHIC SCALE

1"=5' 0 5' 10' 20'

DEMOLITION NOTES

1. REMOVE AND SALVAGE LANDSCAPING TIMBER FOR REUSE
2. REMOVE CONCRETE WALK
3. REMOVE AND SALVAGE REMOTE DOOR OPENER PEDESTAL
4. SAWCUT SIDEWALK 2.5' FROM STEP EDGE

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT L. BURKHOLDER
No. 029191
PROFESSIONAL ENGINEER

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Architecture & Engineering

SHEET NO.
CD102

SATISFACTORY TO:	DATE
ROICC	
SAFETY	
CUSTOMER	
FIRE INSPECTOR	

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	RLB				
DRWN	RHN				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO:	DATE
DIRECTOR ENGINEERING DIV.	
PWO / OICC	
FACILITIES MAINTENANCE OFFICER	

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

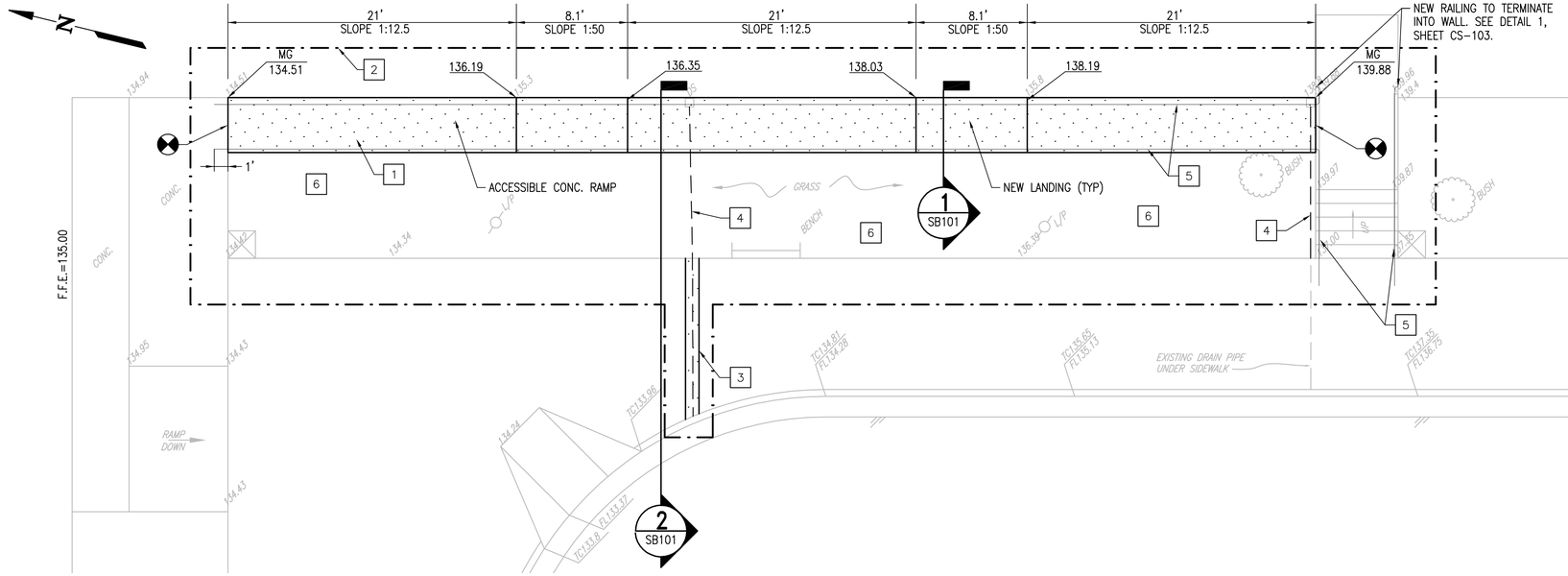
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

EXISTING CONDITIONS, DEMOLITION PLAN AND EROSION & SEDIMENT CONTROL PLAN

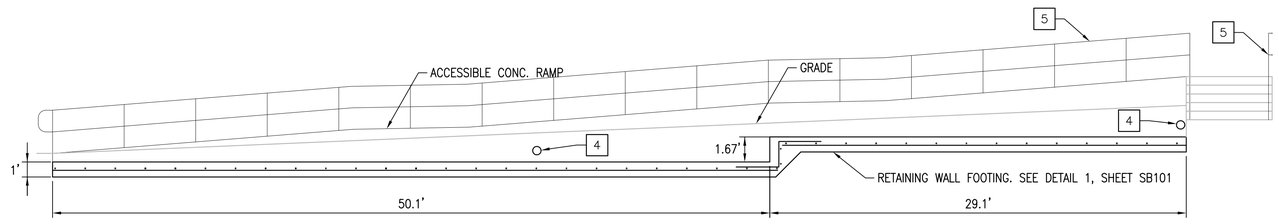
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182990

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 6 OF 106



PLAN VIEW

SCALE: 1" = 5'



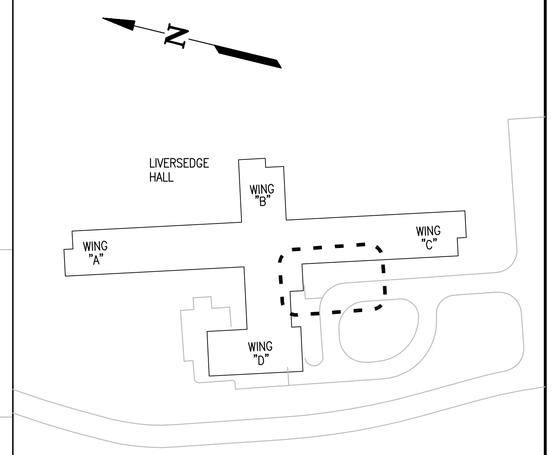
RAMP ELEVATION

SCALE: 1" = 5'

CONSTRUCTION NOTES

1. SEE DETAIL 1, SHEET SB101
2. PROJECT LIMITS
3. INSTALL NEW PIPE, PATCH SIDEWALK AND CURB, SEE DETAILS 1 AND 2, SHEET CS102.
4. NEW 4" DIAMETER DRAIN PIPE. CONNECT TO EXISTING DOWNSPOUT, SEE DETAIL 2, SHEET SB101
5. NEW FREE STANDING HANDRAILS, SEE DETAILS 2, 3, AND 4, SHEET CS103
6. PROVIDE A UNIFORM SLOPE FROM THE EDGE OF RAMP TO SIDEWALK FOR POSITIVE DRAINAGE AS SHOWN IN DETAIL 2, SHEET SB101.

KEYPLAN (NO SCALE)



GRAPHIC SCALE

1"=5' 0 5' 10' 20'

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SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES	RLB				
DRWN	RHN				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	CONST JVA

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LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SITE LAYOUT

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182991

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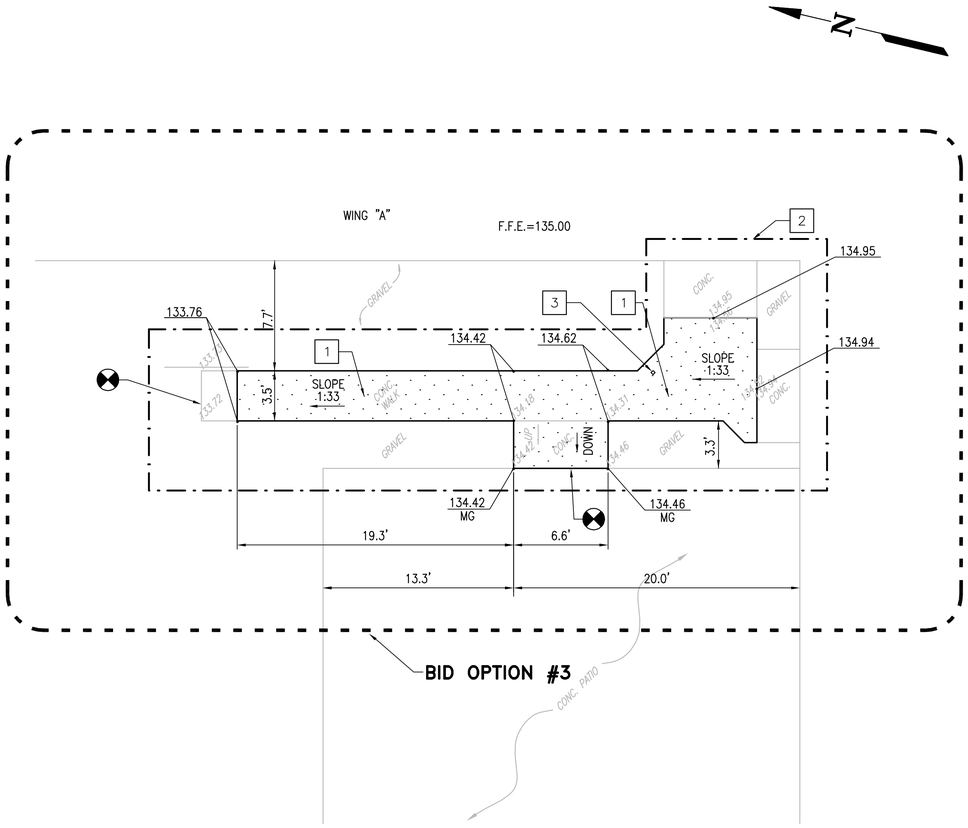
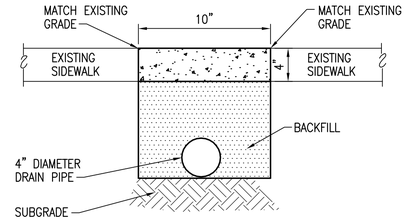
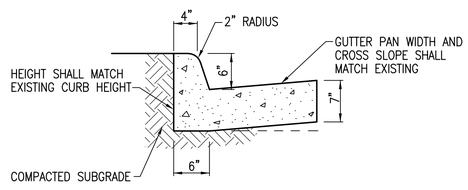




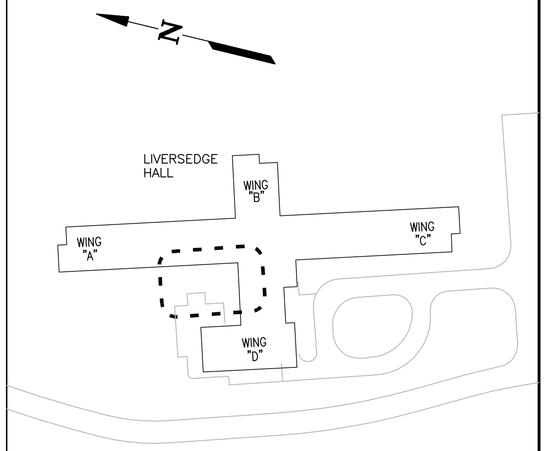
NOTE:
ALL MATERIALS AND SUBGRADE SHALL BE COMPACTED @ 95% PER ASTM D 698.

1 CS102 — CONCRETE SIDEWALK PATCH
NO SCALE



2 CS102 — CONCRETE CURB AND GUTTER
NO SCALE

KEYPLAN (NO SCALE)



GRAPHIC SCALE

1"=5' 0 5' 10' 20'

CONSTRUCTION NOTES

1. NEW CONCRETE WALK, SEE DETAIL 1, SHEET CS103
2. PROJECT LIMITS
3. REINSTALL REMOTE DOOR OPENER PEDESTAL

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SHEET NO. CS102

SATISFACTORY TO:	DATE
ROICC	
SAFETY	
CUSTOMER	
FIRE INSPECTOR	

SATISFACTORY TO:	DATE
DIRECTOR ENGINEERING DIV.	
PWO / OICC	
FACILITIES MAINTENANCE OFFICER	

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES RLB
DRWN RHN
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
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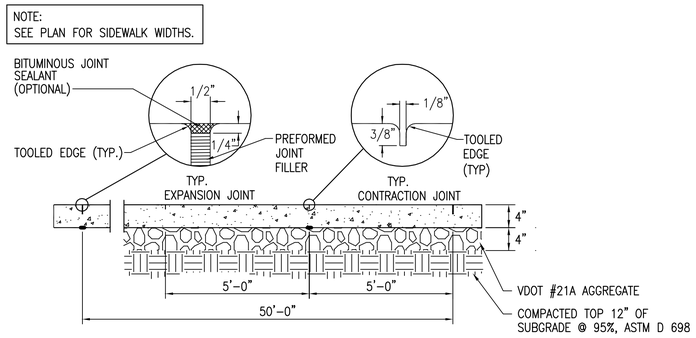
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SITE LAYOUT PLAN

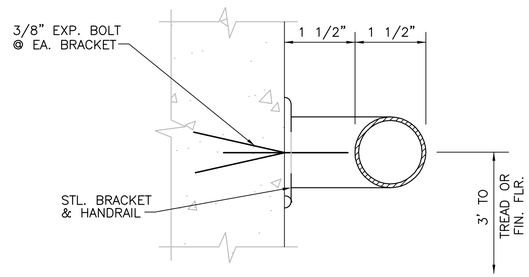
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182992

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 8 OF 106



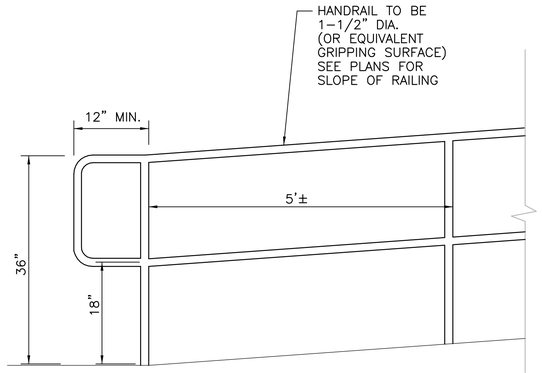
1 CS103 TYPICAL CONCRETE SIDEWALK LONGITUDINAL SECTION

NOT TO SCALE



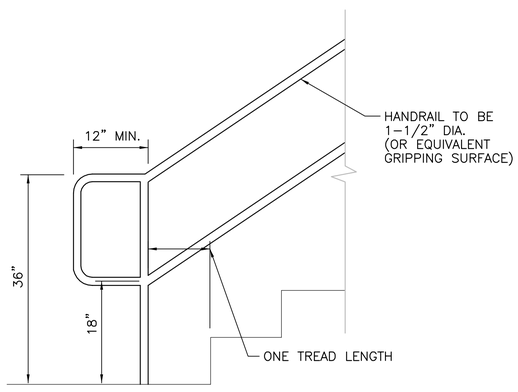
3 CS103 HAND RAIL MOUNTING DETAIL

NOT TO SCALE



2 CS103 HAND RAIL AT RAMP

NOT TO SCALE



4 CS103 HAND RAIL AT STAIRS

NOT TO SCALE

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ROBERT L. BURKHOLDER
No. 029191
PROFESSIONAL ENGINEER

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SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES RLB
DRWN BCB
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECTION DETAILS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182993

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STRUCTURAL SPECIFICATIONS:

DESIGN NOTES

1. STRUCTURAL DESIGN IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, THE BOCA NATIONAL BUILDING CODE 1996 AND ASCE 7-95.

EXCAVATION

1. SELECT FILL MATERIAL: ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS; FREE OF WASTE, FROZEN MATERIALS, AND VEGETATION, WITH LESS THAN 5 PERCENT BY WEIGHT RUBBLE. RUBBLE SHALL BE NO LARGER THAN 4 INCHES IN ANY DIRECTION.
2. FOOTING OR SLAB SHALL NOT BE PLACED IN FROZEN GROUND. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. DESIGN ALLOWABLE SOIL BEARING PRESSURE IS 2000 PSF ON SUITABLE RESIDUAL SOIL OR PROPERLY COMPACTED STRUCTURAL FILL. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698).
4. AFTER EXCAVATIONS ARE MADE, THE BOTTOMS SHALL BE INSPECTED BY CONTRACTING OFFICER TO VERIFY THAT THE SUPPORTING SOILS ARE SUITABLE FOR BEARING AND ARE CAPABLE OF SUPPORTING THE DESIGN ALLOWABLE BEARING PRESSURE OF 2000 PSF.
5. ALL FOUNDATIONS SHALL BE CONCRETED THE SAME DAY EXCAVATIONS ARE MADE OR AS SOON AS POSSIBLE THEREAFTER.
6. ALL FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED TO PREVENT WATER FROM ACCUMULATING AND STANDING IN THE EXCAVATION BOTTOMS.

EXCAVATION CONT'D

7. NO FOUNDATION WORK SHALL BE INSTALLED UNTIL ALL FOOTING WORK HAS BEEN COORDINATED WITH ADJACENT UNDERGROUND UTILITIES AND STRUCTURES.
8. NO UNBALANCED BACK FILLING SHALL BE MADE AGAINST CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR PERMANENT CONSTRUCTION.

CONCRETE

1. CONCRETE CONSTRUCTION SHALL COMPLY WITH PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS: AMERICAN CONCRETE INSTITUTE (ACI) 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS; ACI 318-95, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. SUBMIT MIX DESIGN FOR APPROVAL.
3. CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

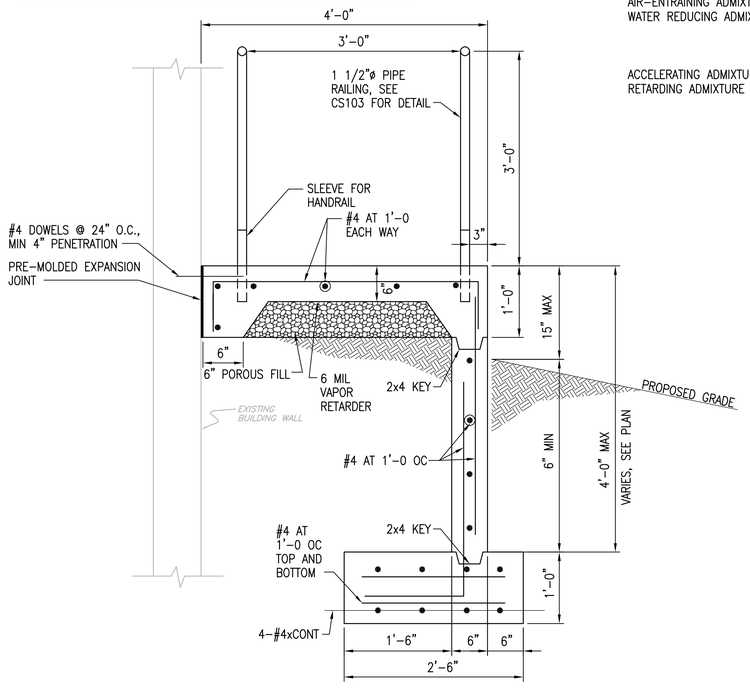
PORTLAND CEMENT	ASTM C 150, TYPE 1
FLY ASH	ASTM C 618, TYPE F (NOT TO EXCEED 15% OF CEMENT BY WEIGHT)
NORMAL WEIGHT AGGREGATES	ASTM C 33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C 260
WATER REDUCING ADMIXTURES	ASTM C 494, TYPE A & ASTM C 494 TYPE F OR G
ACCELERATING ADMIXTURE	ASTM C 494, TYPE E
RETARDING ADMIXTURE	ASTM C 494, TYPE D

CONCRETE CONT'D

4. REINFORCING STEEL SHALL BE DEFORMED BARS IN ACCORDANCE WITH ASTM A-615, GRADE 60. REINFORCING MARKED CONTINUOUS SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES.
5. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE IN ACCORDANCE WITH THE 1996 EDITION OF ACI 318 UNLESS OTHERWISE INDICATED.
6. ALL COLD WEATHER CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 306R, "COLD WEATHER CONCRETING."
7. ALL HOT WEATHER CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 305R, "HOT WEATHER CONCRETING."
8. CURING COMPOUND SHALL COMPLY WITH ASTM C 309, TYPE I, CLASS B.
9. REINFORCING STEEL SHALL BE SPREAD AT SLEEVES, TIEBACKS, RECESSES AND OTHER EMBEDDED ITEMS UNLESS OTHERWISE INDICATED. REINFORCEMENT SHALL NOT BE CUT TO FACILITATE PLACEMENT OF EMBEDDED ITEMS.
10. ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
11. NO CONCRETE SHALL BE PLACED UNTIL THE CONTRACT OFFICER HAS INSPECTED ALL EMBEDMENT WORK, INCLUDING REINFORCEMENT.

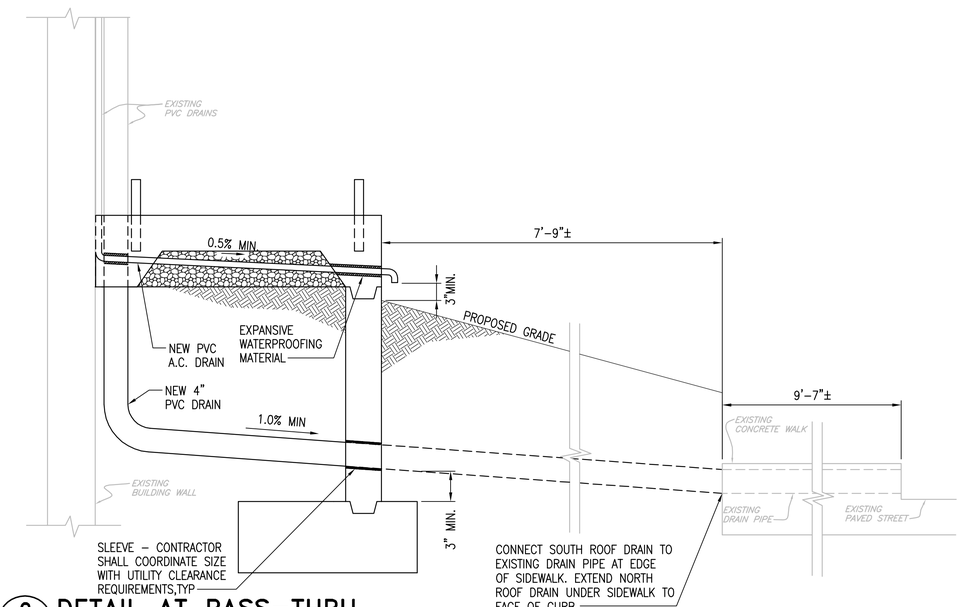
STEEL

1. ALL STEEL PIPE SHALL BE ASTM A-501, UNLESS OTHERWISE NOTED.



1 SB101 **DETAIL OF WALK & FOOTING**

SCALE: 1" = 1'-0"



2 SB101 **DETAIL AT PASS-THRU**

SCALE: 1" = 1'-0"

GRAPHIC SCALE

1" = 1'-0" 0 6" 1' 2' 3'

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ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

SEAL
COMMONWEALTH OF VIRGINIA
JASON M. CANFIELD
No. 34144
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES RLB
DRWN BCB
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECTION DETAILS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182994

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ABBREVIATIONS LEGEND

ADJ	ADJACENT
AFS	ABOVE FINISH SLAB
AFF	ABOVE FINISH FLOOR
ALUM/AL	ALUMINUM
ACT	ACOUSTICAL TILE
&	AND
B/	BOTTOM OF
BC	BRICK COURSE
℄	CENTER LINE
CLG	CEILING
CJ	CONTROL JOINT
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EXP JT	EXPANSION JOINT
EX	EXISTING
F/	FACE OF
FEC	FIRE EXTINGUISHER CABINET
FLR	FLOOR
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HC	HANDICAPPED
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
INS	INSULATION
LP	LOW POINT
MTL/M	METAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
OC	ON CENTER
OPH	OPPOSITE HAND
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
WD	WOOD

SYMBOLS AND MATERIALS LEGEND

- WALL HUNG SINK TO BE REMOVED
- WATER CLOSET TO BE REMOVED
- URINAL TO BE REMOVED
- DOOR TO BE REMOVED
- X — DEMOLITION NOTE
- 100 — ROOM NUMBER
- EXISTING CONSTRUCTION
- PARTITION TO BE REMOVED
- EXISTING CONSTRUCTION OR ITEM TO BE REMOVED
- FLOOR PLAN MATCH LINE

GENERAL NOTES

A. THE BUILDING CONTAINS ASBESTOS IN COMPOSITION FLOOR TILE CONTAINED UNDER CARPET AND THE TILE MASTIC WITH WHICH IT IS ATTACHED. ITEMS WHICH ARE ASBESTOS–CONTAINING ARE IDENTIFIED IN THE HAZMAT REPORT AND ABATEMENT SHALL BE COMPLETED IN ACCORDANCE WITH SPECIFICATION SECTION 13281N. ANY ASBESTOS–CONTAINING MATERIAL ENCOUNTERED BUT NOT INDICATED TO BE REMOVED SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER PRIOR TO ANY FURTHER WORK IN THE AREA, OTHERWISE THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE WORK WITHOUT COMPENSATION.

B. THE BUILDING CONTAINS LIMITED AREAS OF LEAD IN THE PAINT AS WELL AS PCB'S. WHICH ARE IDENTIFIED IN THE HAZMAT REPORT AND ABATEMENT SHALL BE COMPLETED IN ACCORDANCE WITH SPECIFICATION SECTION 13286N.

C. EQUIPMENT REMOVED BY DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BASE UNLESS OTHERWISE DIRECTED BY THE OFFICER IN CHARGE OF CONSTRUCTION. SPECIFIC ITEMS OF EQUIPMENT INDICATED SHALL BE DELIVERED TO AN ON–BASE SITE AND TURNED OVER TO THE GOVERNMENT AS DIRECTED.

D. PIPES AND CONDUIT BURIED IN CONCRETE CONSTRUCTION THAT WILL REMAIN SHALL BE CUT OFF AND GROUTED FLUSH WITH THE SURROUNDING SURFACE.

E. REMOVE MISCELLANEOUS ITEMS FROM SURFACES TO BE REFINISHED SUCH AS FASTENERS, CLIPS, WOOD BLOCKING, AND OTHER ITEMS NOT SPECIFICALLY NOTED TO BE REMOVED.

F. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OF ANIMAL OR INSECT INFESTATION FOUND DURING THE COURSE OF DEMOLITION.

G. "A" AND "C" WINGS OPEN ONTO THE ROOF. IF THIS ACCESS IS USED BY THE GENERAL CONTRACTOR, THEN HE IS RESPONSIBLE FOR PROTECTING ROOF DURING CONSTRUCTION.

SEAL
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ARCHITECT

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SHEET NO.
A–001

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES LMS
DRWN MOH
CHECKED: ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

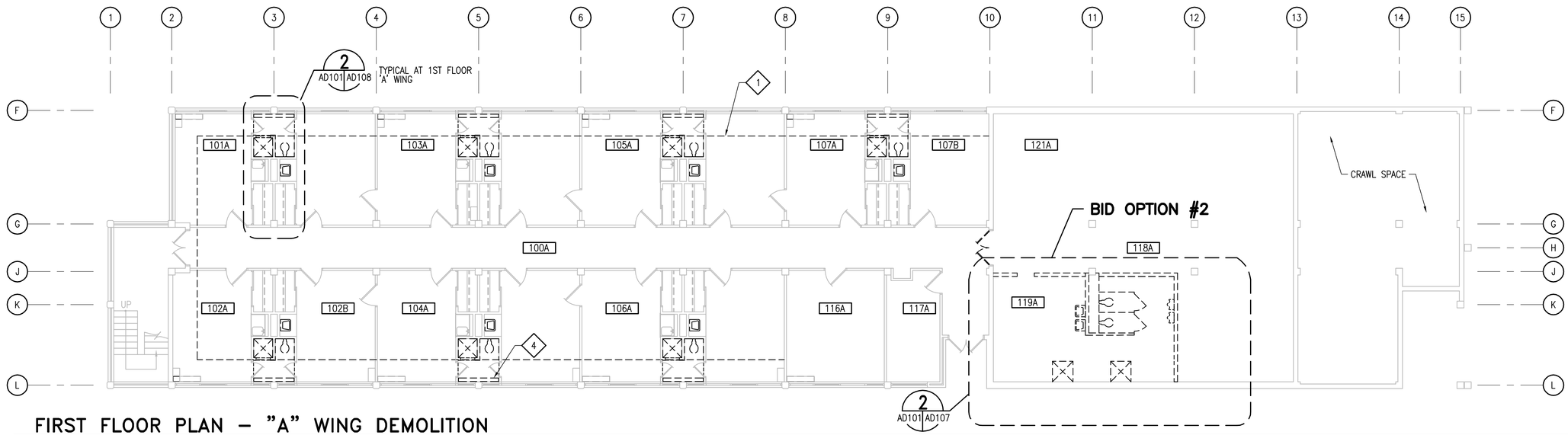
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGEND, ABBREVIATIONS, & GENERAL NOTES

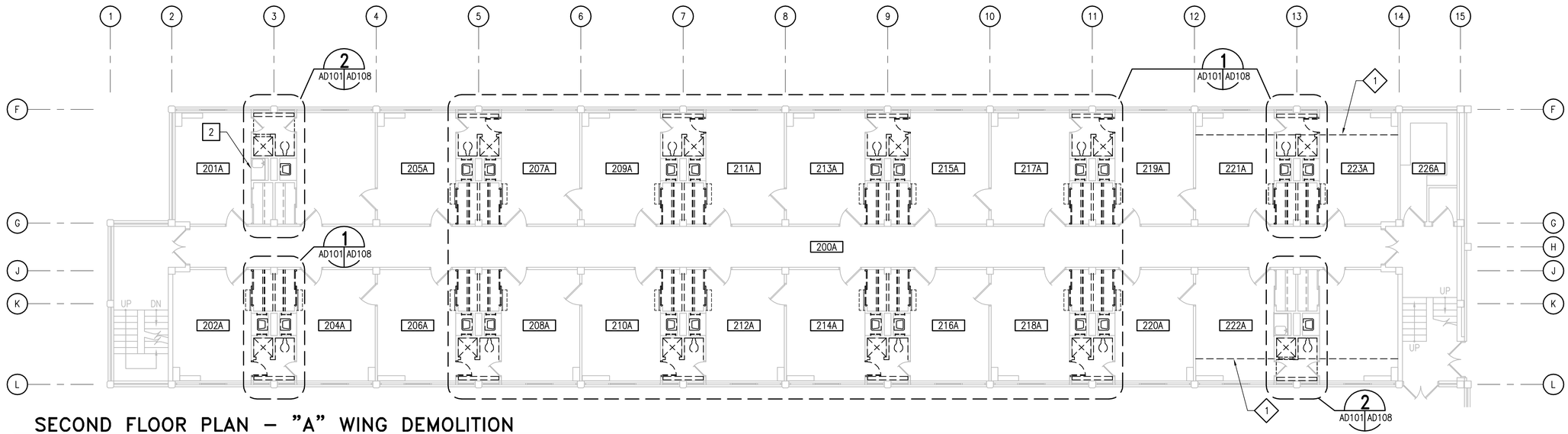
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3182995

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 11 OF 106



FIRST FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



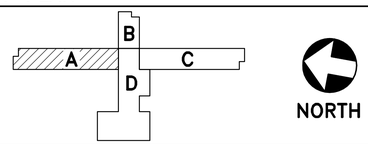
SECOND FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. EXISTING SOFFIT ABOVE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
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SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	LMS				
DRWN	MOH				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

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SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

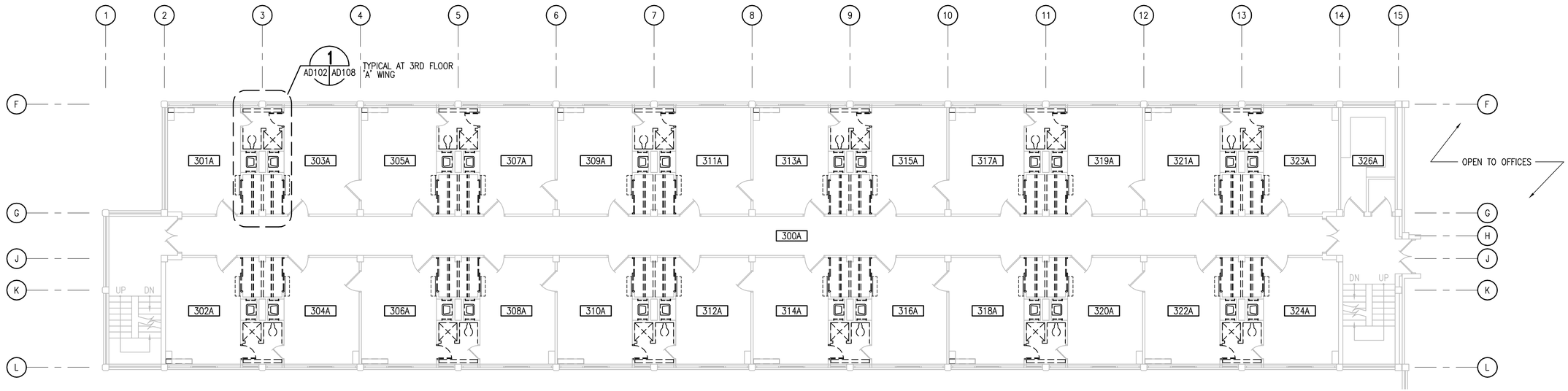
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING DEMOLITION

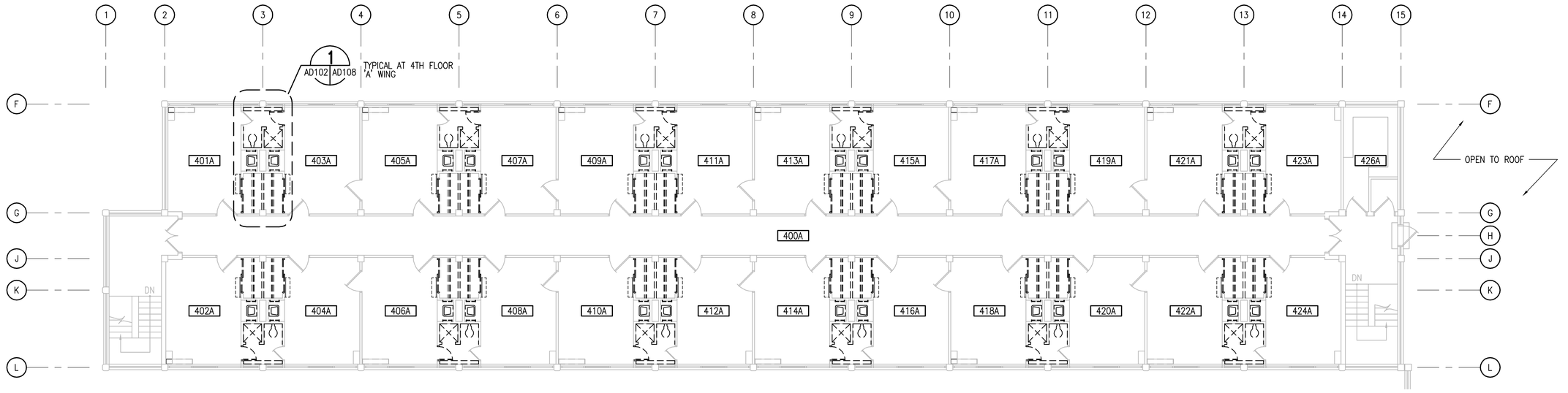
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182996

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 12 OF 106



THIRD FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

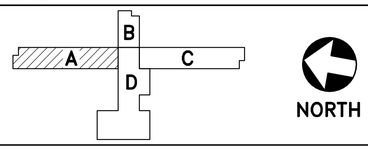


FOURTH FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
AD102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
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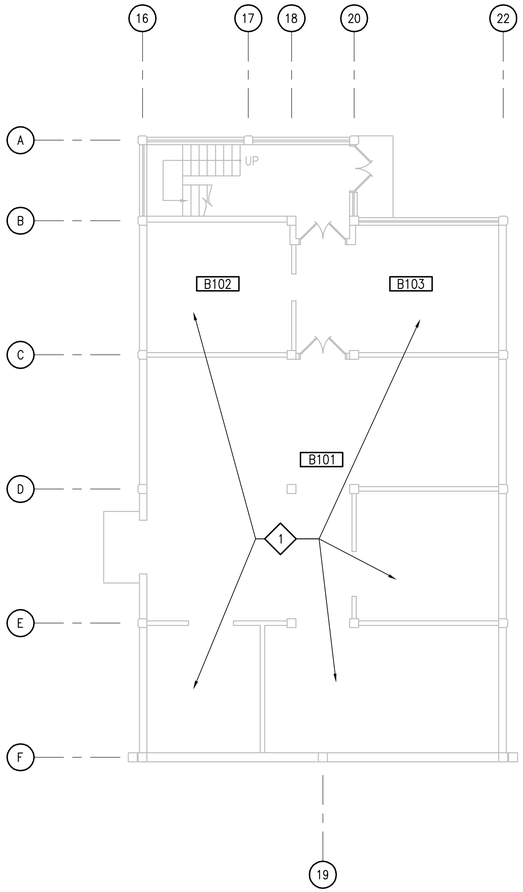
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING DEMOLITION

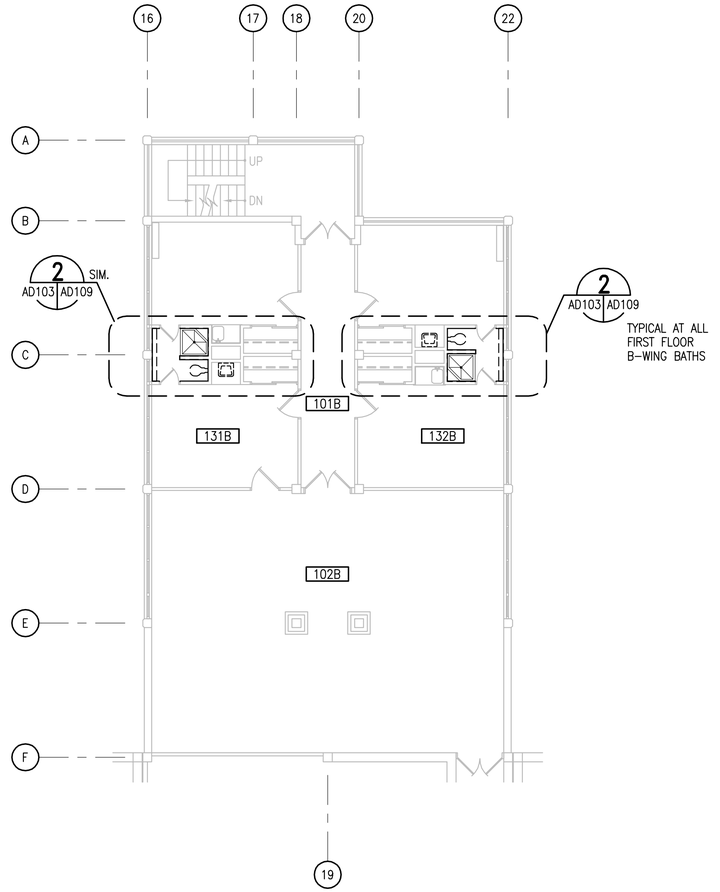
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182997

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 13 OF 106



BASEMENT FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"



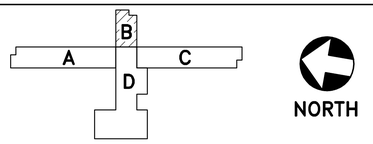
FIRST FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"

KEYNOTES

1. NO ARCHITECTURAL WORK THIS AREA. SEE PD103, PL103, ED103, EL103 AND FP103.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

SEAL

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AD103

SATISFACTORY TO:	DATE
ROICC	
SAFETY	
CUSTOMER	
FIRE INSPECTOR	

SATISFACTORY TO:	DATE
DIRECTOR ENGINEERING DIV.	
PWO / OICC	
FACILITIES MAINTENANCE OFFICER	

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES LMS
DRWN MOH
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
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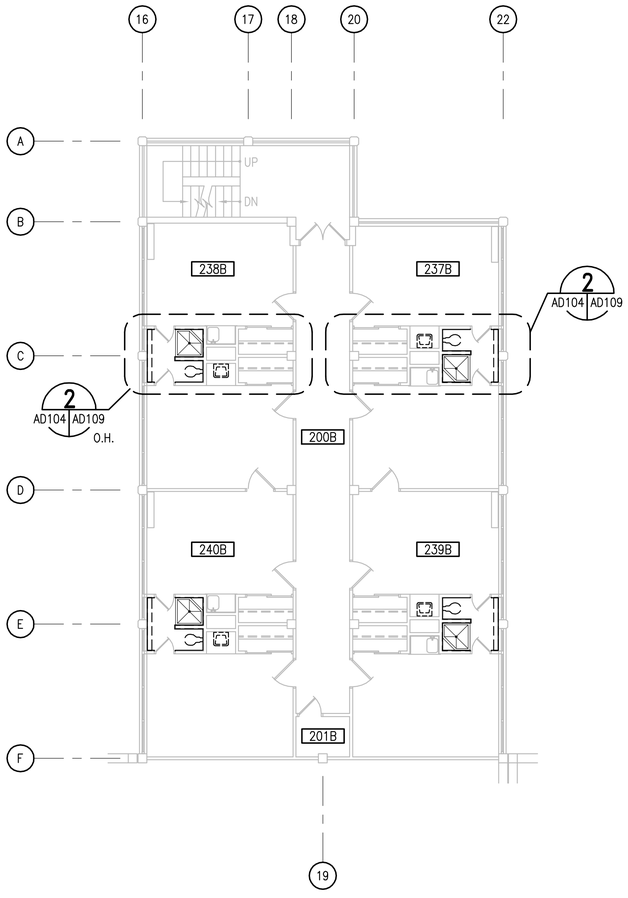
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING DEMOLITION

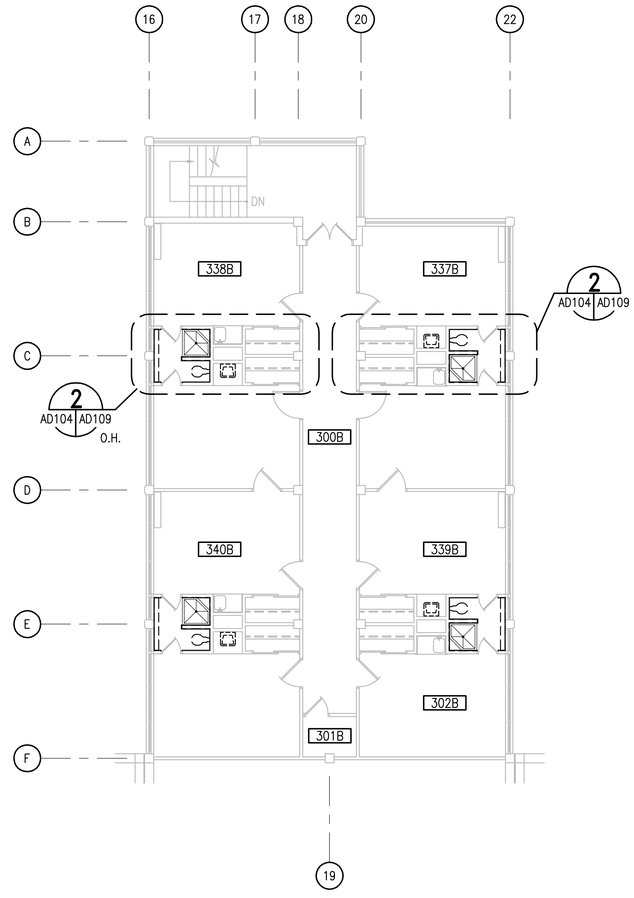
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3182998

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 14 OF 106



SECOND FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"

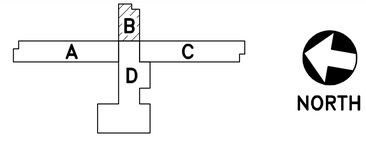


THIRD FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"

KEYNOTES

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

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SHEET NO.
AD104

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SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

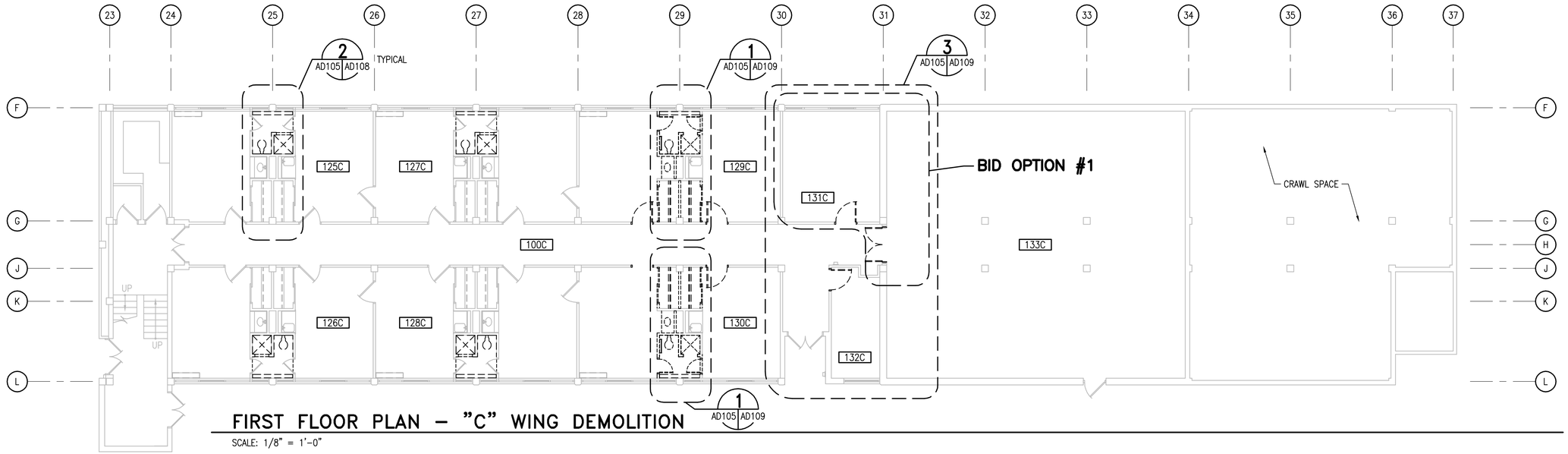
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3182999

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 15 OF 106



FIRST FLOOR PLAN – "C" WING DEMOLITION

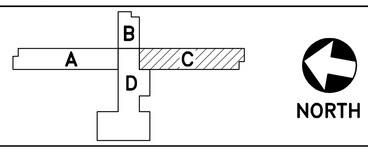
SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

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SHEET NO.
AD105

SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: ROICC — DATE
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SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES	LMS				
DRWN	MOH				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

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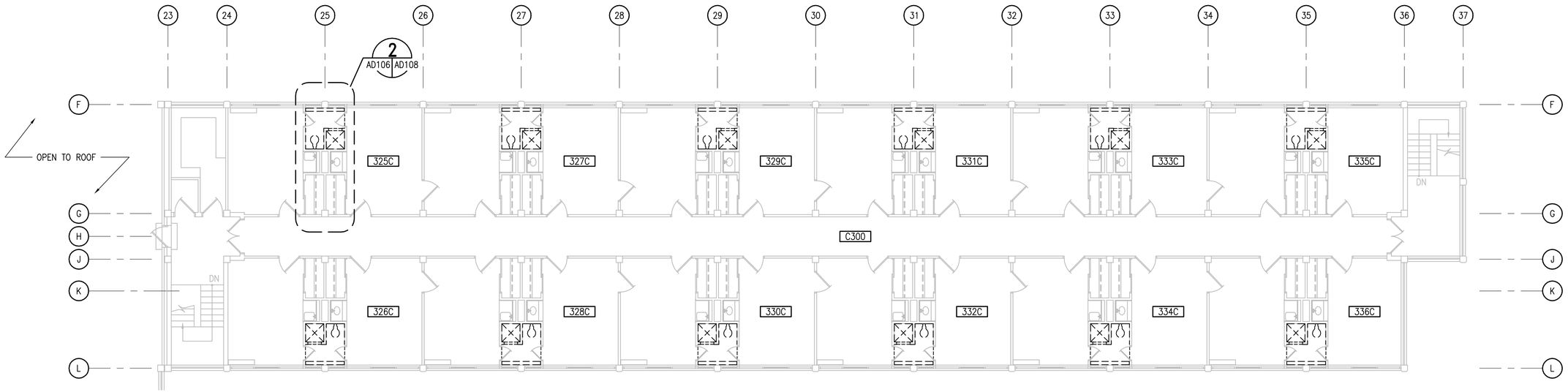
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183000

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 16 OF 106

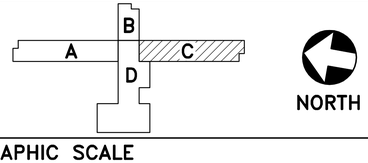


THIRD FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

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AD106

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
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MARINE CORPS BASE — QUANTICO, VIRGINIA

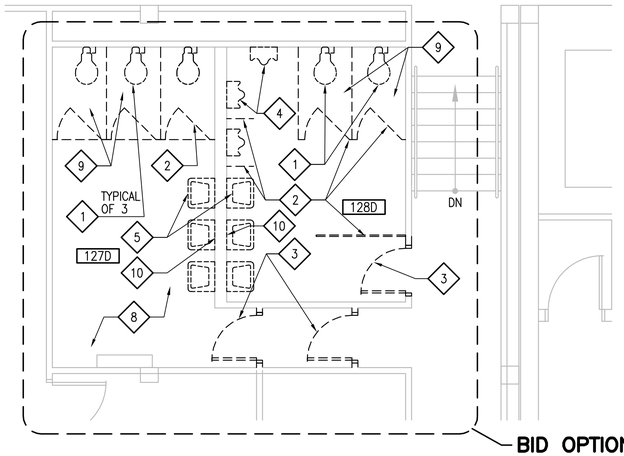
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183001

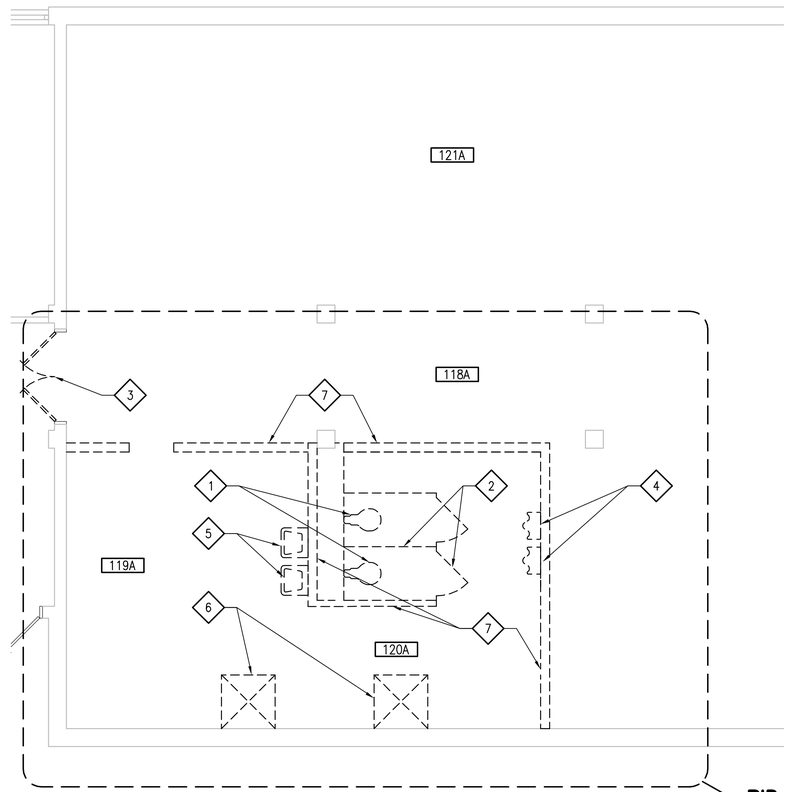
SCALE: NOTED | SPEC. 21-02-1015 | SHEET 17 OF 106



BID OPTION #4

1 AD107 | AD107 TOILET PLAN 'D' WING – DEMOLITION

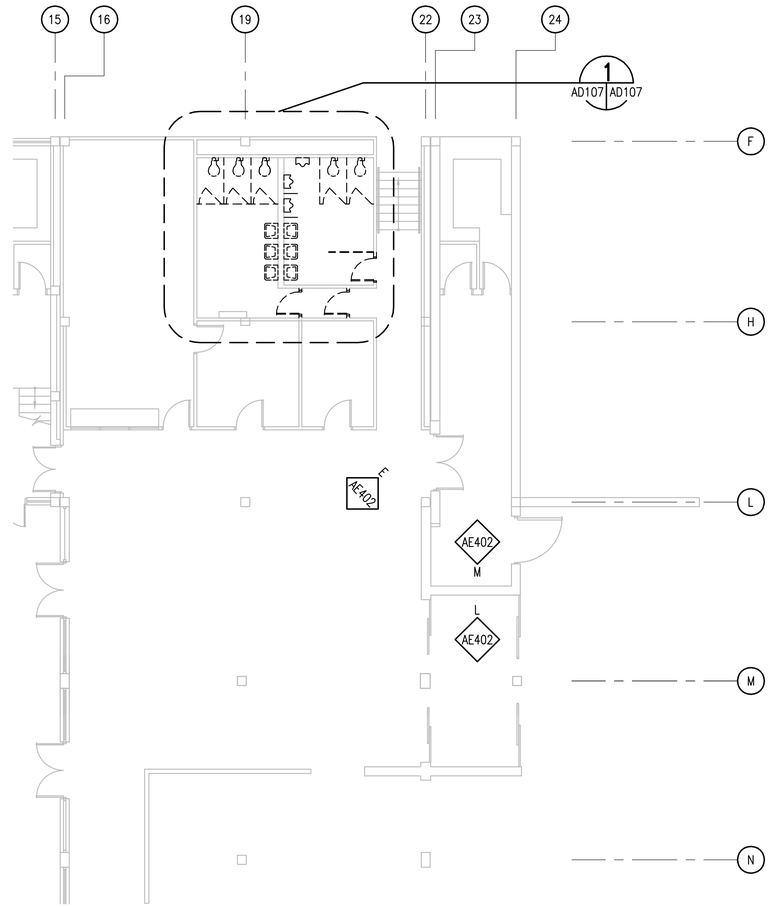
SCALE: 1/4" = 1'-0"



BID OPTION #2

2 AD101 | AD107 CHANGING ROOMS 'A' WING – DEMOLITION

SCALE: 1/4" = 1'-0"



3 AD107 | AD107 PLAN 'D' WING – DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE TOILET AND CAP (SEE PLUMBING DRAWINGS).
2. REMOVE METAL PARTITION FOR TOILET AND URINAL.
3. REMOVE DOORS AND FRAMES COMPLETE.
4. REMOVE URINAL (SEE PLUMBING DRAWINGS).
5. REMOVE LAVATORY, (SEE PLUMBING DRAWINGS).
6. REMOVE SHOWER STALL UNITS COMPLETE (SEE PLUMBING DRAWINGS).
7. REMOVE EXISTING WALLS COMPLETE.
8. REMOVE CARPET AND ADHESIVE.
9. REMOVE TILE FLOOR.
10. REMOVE MIRROR, 24" x 36"

GENERAL NOTE

1. LEAVE ALL EXISTING CONDUIT IN PLACE FOR REUSE PER FP-SHEETS. REMOVE UNUSED CONDUITS NOT REQUIRED FOR WORK UNDER THESE CONTRACT DOCUMENTS (TYPICAL).

GRAPHIC SCALE

1/4" = 1'-0" 0 1' 5' 10' 15'

1/8" = 1'-0" 0 5' 10' 15' 30'

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AD107

SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: DATE
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SATISFACTORY TO: DATE
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

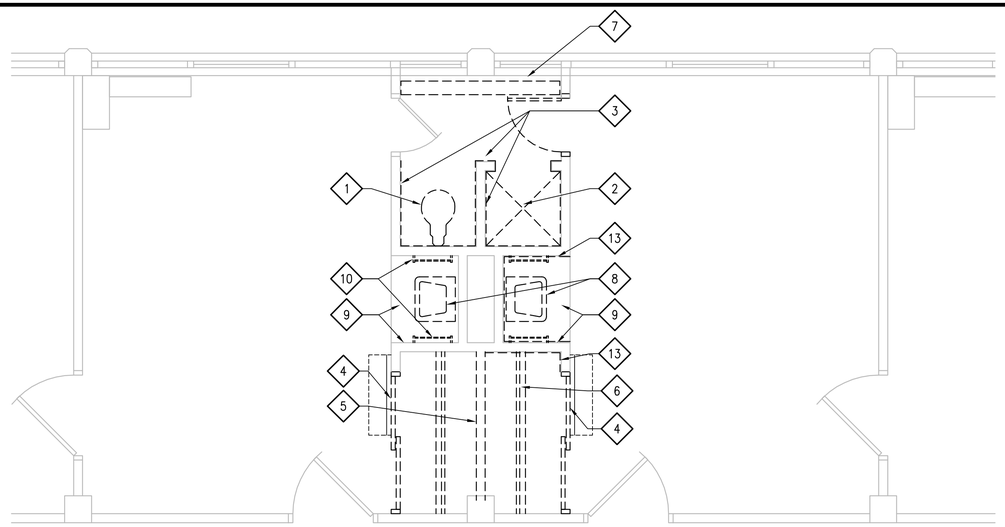
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TOILET PLAN – DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183002

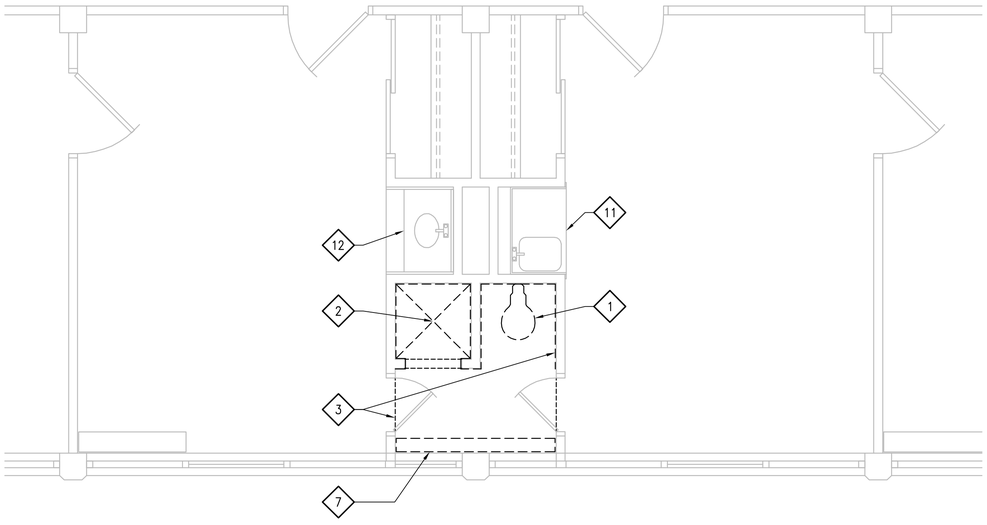
SCALE: NOTED | SPEC. 21-02-1015 | SHEET 18 OF 106



1 AD101,AD102,AD108

TYPICAL SINGLE QUARTERS PLAN – DEMOLITION

SCALE: 3/8" = 1'–0"



2 AD101,AD102,AD108 AD105, AD106

TYPICAL SUITE PLAN – DEMOLITION

SCALE: 3/8" = 1'–0"

KEYNOTES

1. REMOVE TOILET (SEE PLUMBING DRAWINGS).
2. REMOVE SHOWER, TILE AT WALLS AND BASIN AND ENTRY SURROUND COMPLETE.
3. REMOVE 4' WAINSCOT AND FLOOR TILES AT BATHROOM.
4. REMOVE CLOSET DOORS TRACKS AND FRAMES.
5. REMOVE CMU WALL TO UNDERSIDE OF SLAB ABOVE.
6. REMOVE CLOSET RODS, SHELVING, AND MISCELLANEOUS APPURTENANCES.
7. REMOVE RADIATOR (SEE MECHANICAL DRAWINGS).
8. REMOVE LAVATORY
9. REMOVE CERAMIC TILE WAINSCOT AND FLOOR TILE AT LAVATORY ALCOVE.
10. REMOVE EXISTING CERAMIC TOWEL RACK.
11. EXISTING KITHENETTE TO REMAIN AT ALL SUITE LOCATIONS. (LOCATIONS INCLUDE: ALL OF FIRST FLOOR 'A' WING, ROOMS 201A AND 222A 'A' WING, ALL OF 'B' AND 'C' WINGS).
12. EXISTING VANITY CABINET TO REMAIN AT SECOND FLOOR "C" WING. PROTECT DURING CONSTRUCTION.
13. CLEAN THOROUGHLY AND WIRE–BRUSH WALL SURFACES TO RECEIVE 1/4" GYPSUM WALL BOARD AND MASTIC ADHESIVE.

GRAPHIC SCALE

3/8" = 1'–0" 0 1' 2' 3' 4' 5' 10'

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SHEET NO. AD108

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

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SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

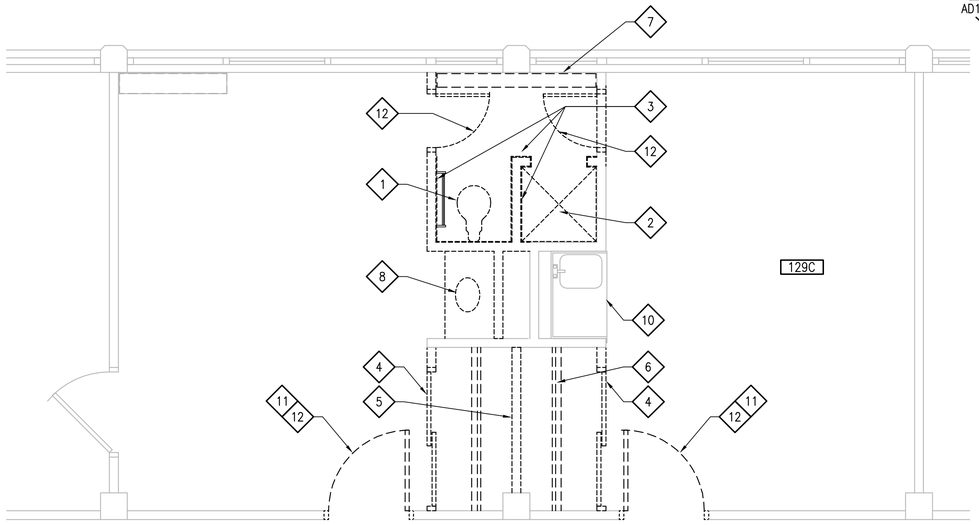
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TYPICAL MODULE PLAN – DEMOLITION

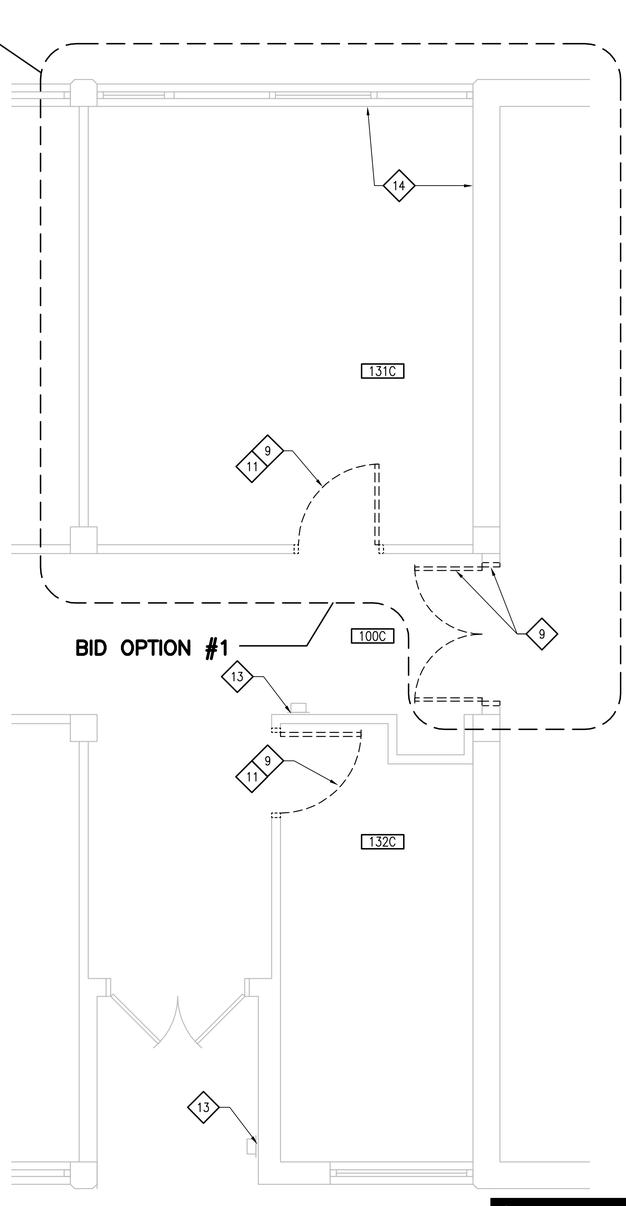
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183003

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 19 OF 106



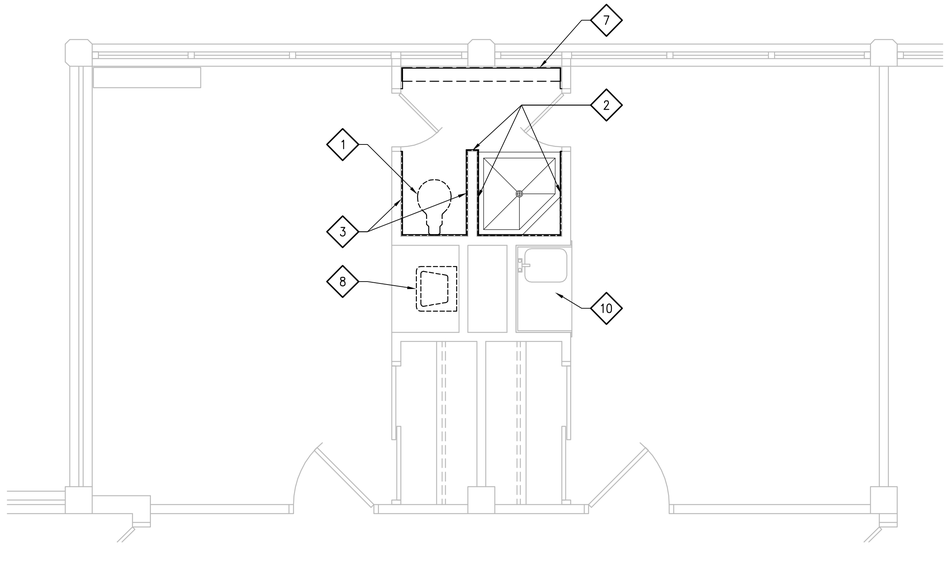
1 AD105 | AD109 — ENLARGED DEMOLITION PLAN AT ADA SUITE

SCALE: 3/8" = 1'-0"



3 AD105 | AD109 — ENLARGED DEMOLITION PLAN

SCALE: 3/8" = 1'-0"



2 AD103,AD104 | AD109 — ENLARGED DEMOLITION PLAN AT 'B' WING

SCALE: 3/8" = 1'-0"

KEYNOTES

1. REMOVE TOILET (SEE PLUMBING DRAWINGS).
2. REMOVE SHOWER, TILE AT WALLS AND BASIN AND ENTRY SURROUND COMPLETE.
3. REMOVE 4' WAINSCOT AND FLOOR TILES AT BATHROOM.
4. REMOVE CLOSET DOORS TRACKS AND FRAMES.
5. REMOVE CMU WALL TO UNDERSIDE OF SLAB ABOVE.
6. REMOVE CLOSET RODS, SHELVING, AND MISCELLANEOUS APPURTENANCES.
7. REMOVE RADIATOR (SEE MECHANICAL DRAWINGS).
8. REMOVE LAVATORY, SEE PLUMBING DRAWINGS.
9. REMOVE METAL DOORS AND FRAMES IN CMU WALL.
10. EXISTING KITCHENETTE TO REMAIN. PROTECT DURING CONSTRUCTION.
11. CUT OUT AND DEMO EXISTING MASONRY WALL SYSTEM TO ALLOW FOR LARGER DOOR. REFER TO AE109 FOR DOOR# AND AE601, DOOR SCHEDULE FOR DOOR DIMENSIONS.
12. REMOVE EXISTING WOOD DOOR AND METAL FRAME IN CMU WALL.
13. PREPARE SURFACE TO RECEIVE TESA CARD READER.
14. THOROUGHLY CLEAN AND WIRE-BRUSH WALL SURFACE TO RECEIVE NEW FINISHES.

GRAPHIC SCALE

3/8" = 1'-0" 0 1' 2' 3' 4' 5' 10'

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SHEET NO. AD109

SATISFACTORY TO:	DATE
ROICC	
SAFETY	
CUSTOMER	
FIRE INSPECTOR	
DIRECTOR ENGINEERING DIV.	
PWO / OICC	
FACILITIES MAINTENANCE OFFICER	

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

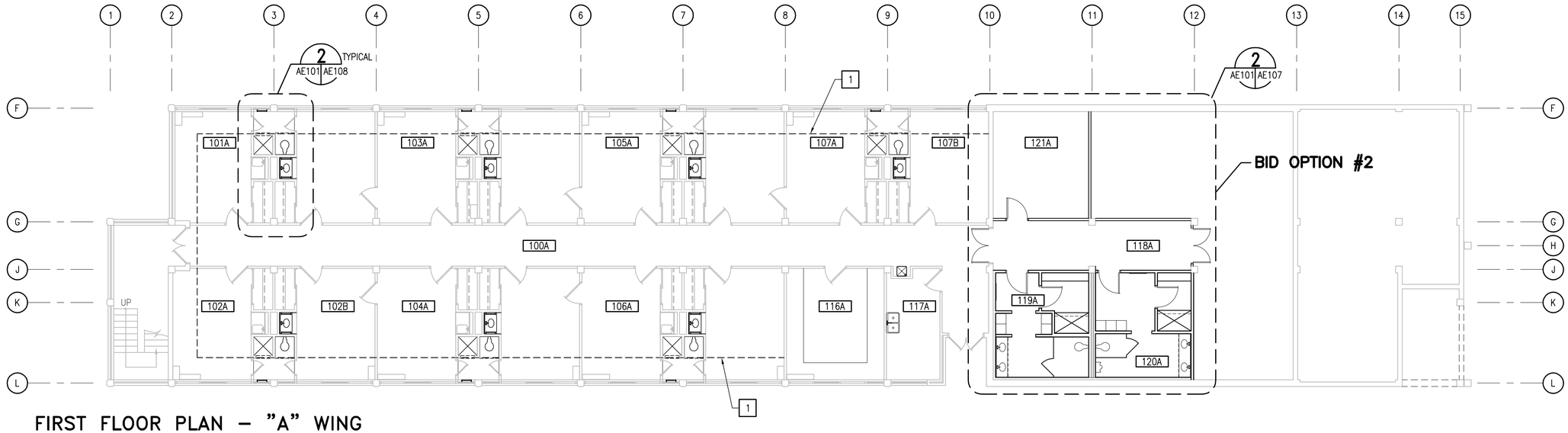
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED DEMOLITION PLANS

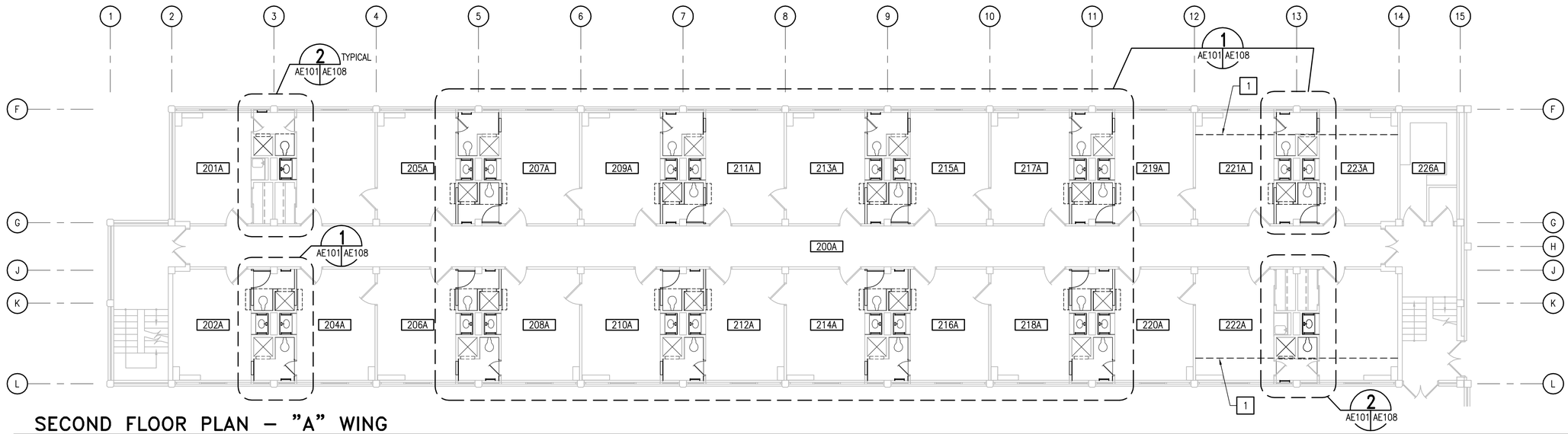
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183004

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 20 OF 106



FIRST FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"



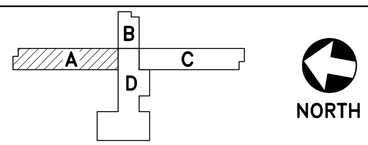
SECOND FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1 LINE OF SOFFIT ABOVE

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK·NEXSEN
Architecture & Engineering

SHEET NO.
AE101

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	LMS				
DRWN	MOH				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: _____ DATE
ROICC

SATISFACTORY TO: _____ DATE
SAFETY

SATISFACTORY TO: _____
CUSTOMER

SATISFACTORY TO: _____
FIRE INSPECTOR

SATISFACTORY TO: _____ DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: _____ DATE
PWO / OICC

SATISFACTORY TO: _____ DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

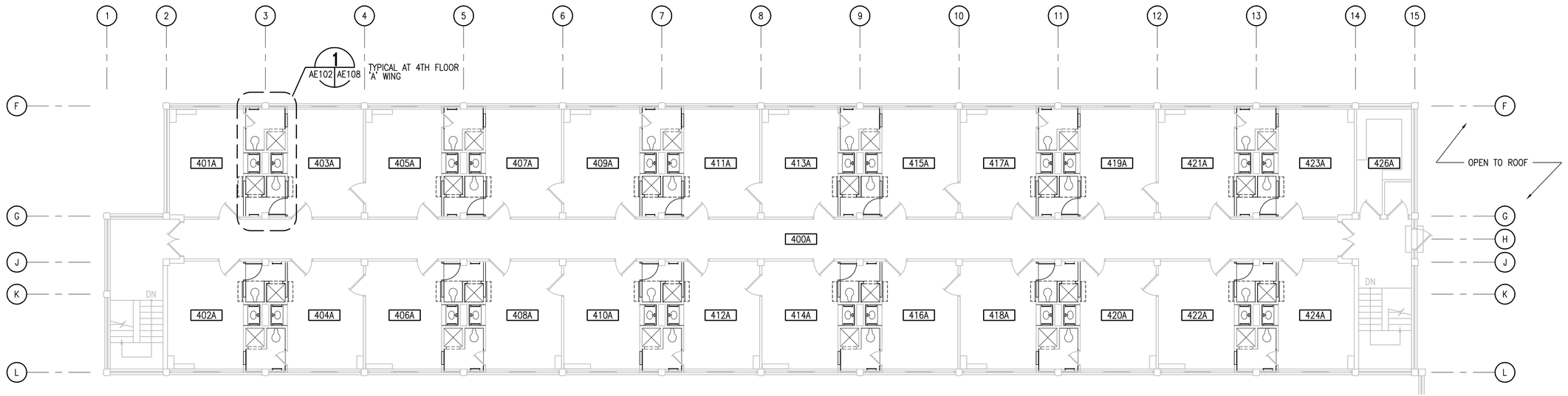
FIRST AND SECOND FLOOR PLAN – "A" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183005

SCALE: NOTED SPEC. 21-02-1015 SHEET 21 OF 106

THIRD FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

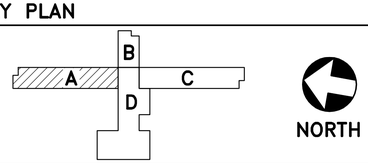


FOURTH FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

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AE102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

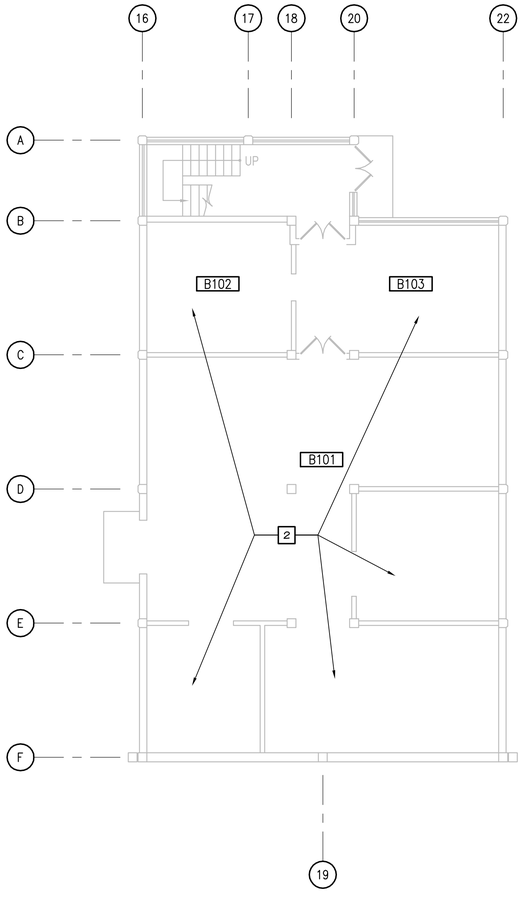
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING

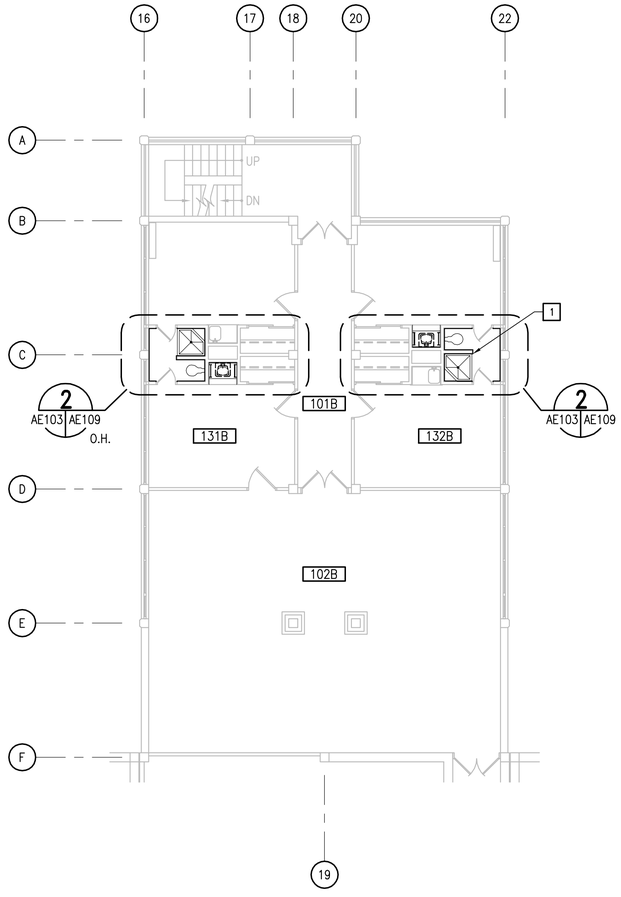
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183006

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 22 OF 106



BASEMENT FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN – "B" WING

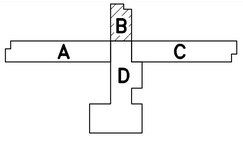
SCALE: 1/8" = 1'-0"

KEYNOTES

1 REPLACE TILE AND GROUT AT SHOWERS, TYPICAL.

2 NO ARCHITECTURAL WORK THIS AREA. SEE PD103, PL103, ED103, EL103 AND FP103.

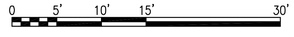
KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"



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SHEET NO.
AE103

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

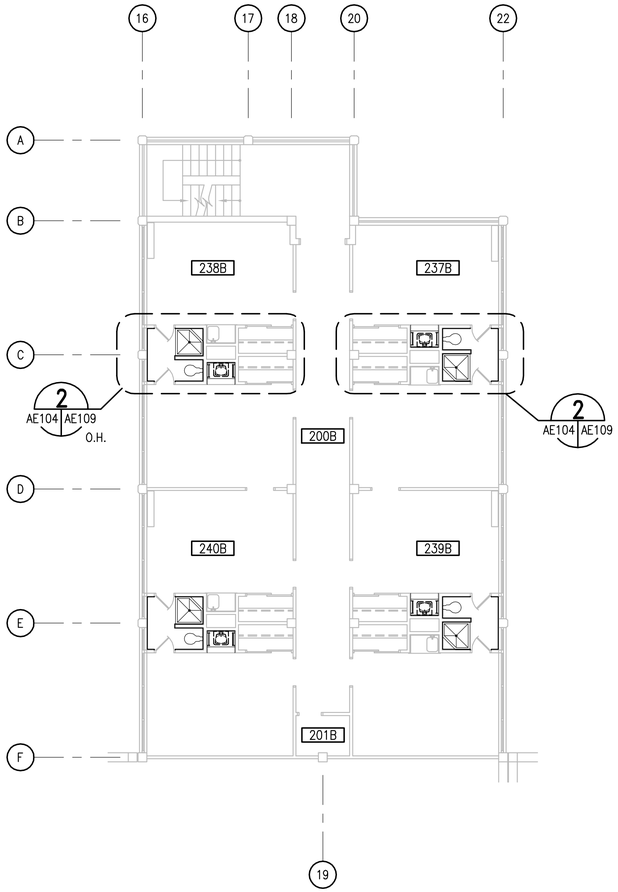
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING

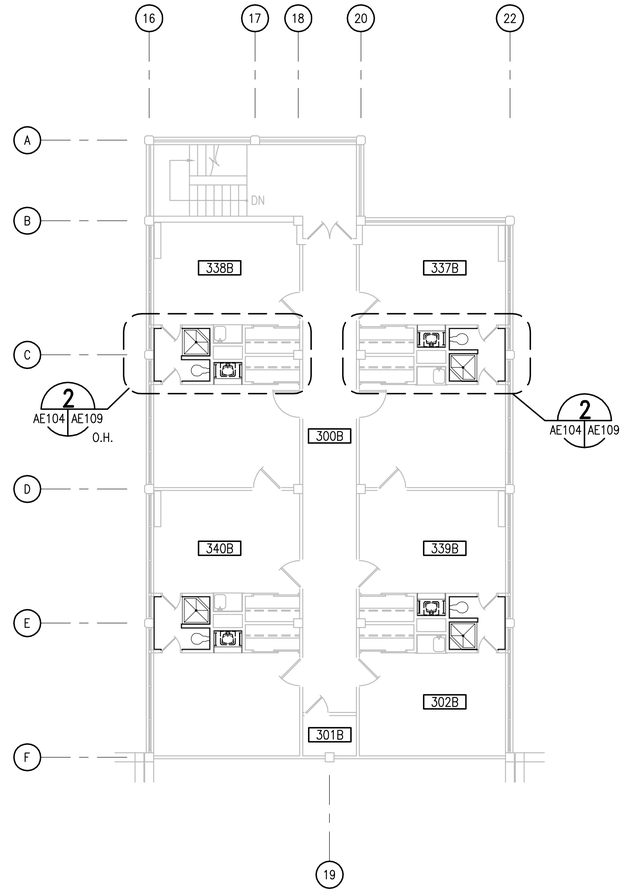
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183007

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 23 OF 106



SECOND FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"

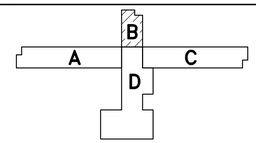


THIRD FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"

KEYNOTES

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

SEAL

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ROBERT E. MIDDLEBROOKS
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SHEET NO.
AE104

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES LMS
DRWN MOH
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SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

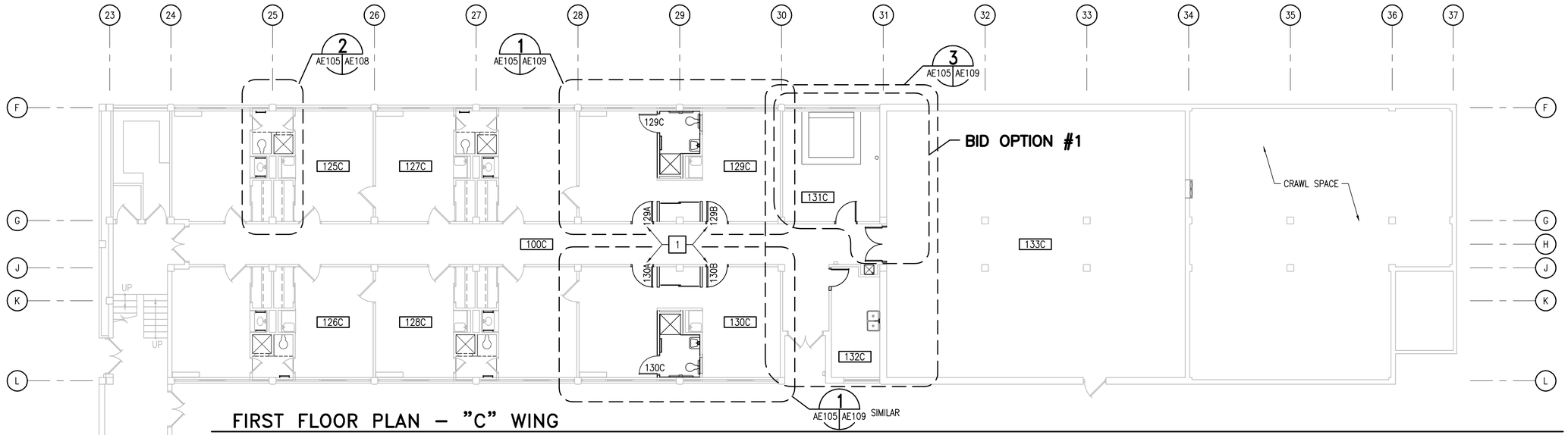
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING

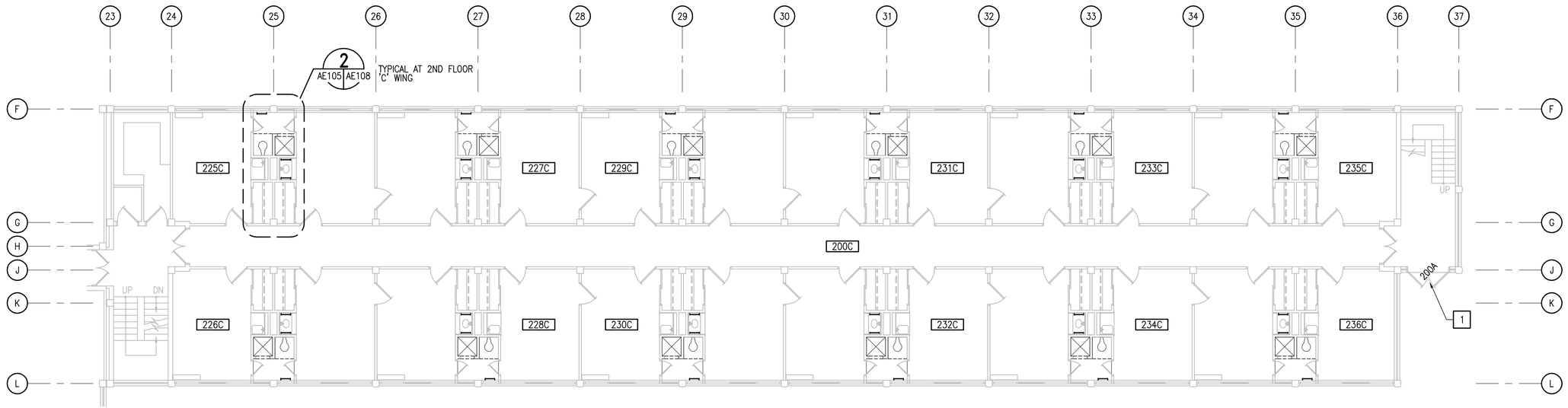
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183008

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 24 OF 106



FIRST FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"



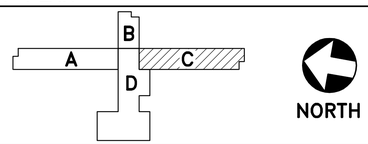
SECOND FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

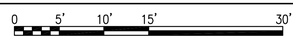
1 SEE SPECIFICATION 8710 FOR DOOR HARDWARE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"



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SHEET NO.
AE105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: _____ DATE
ROICC

SATISFACTORY TO: _____ DATE
SAFETY

SATISFACTORY TO: _____
CUSTOMER

SATISFACTORY TO: _____
FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: _____ DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: _____ DATE
PWO / OICC

SATISFACTORY TO: _____ DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

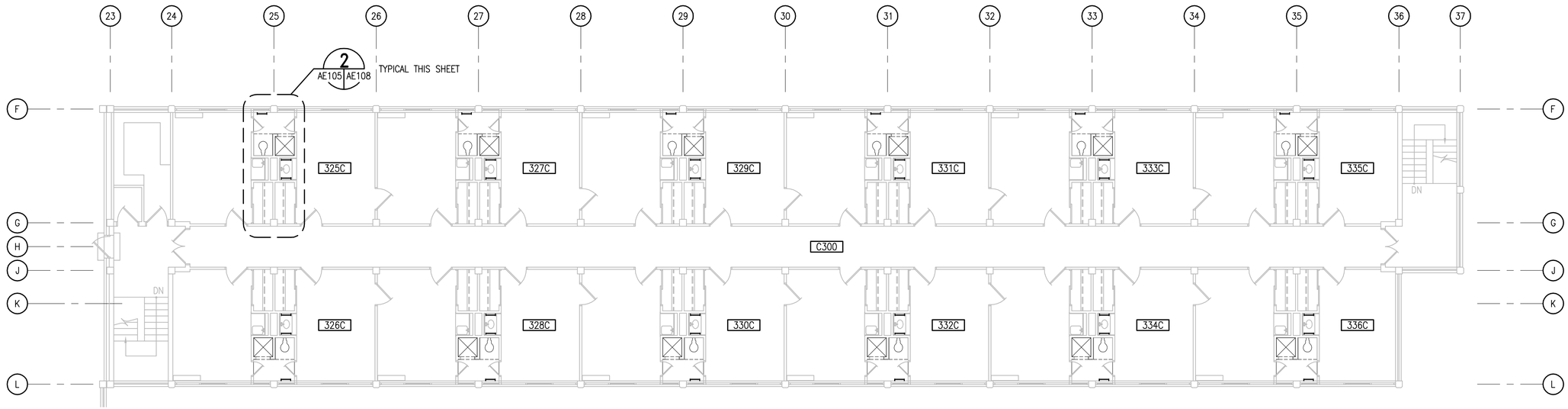
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183009

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 25 OF 106

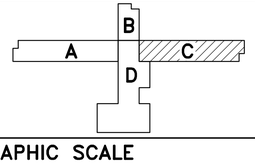


THIRD FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

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SHEET NO.
AE106

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

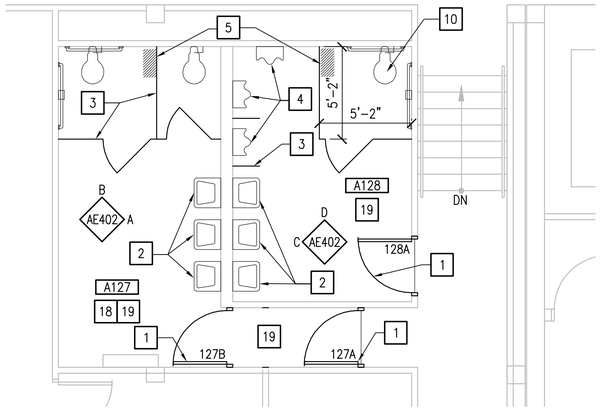
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING

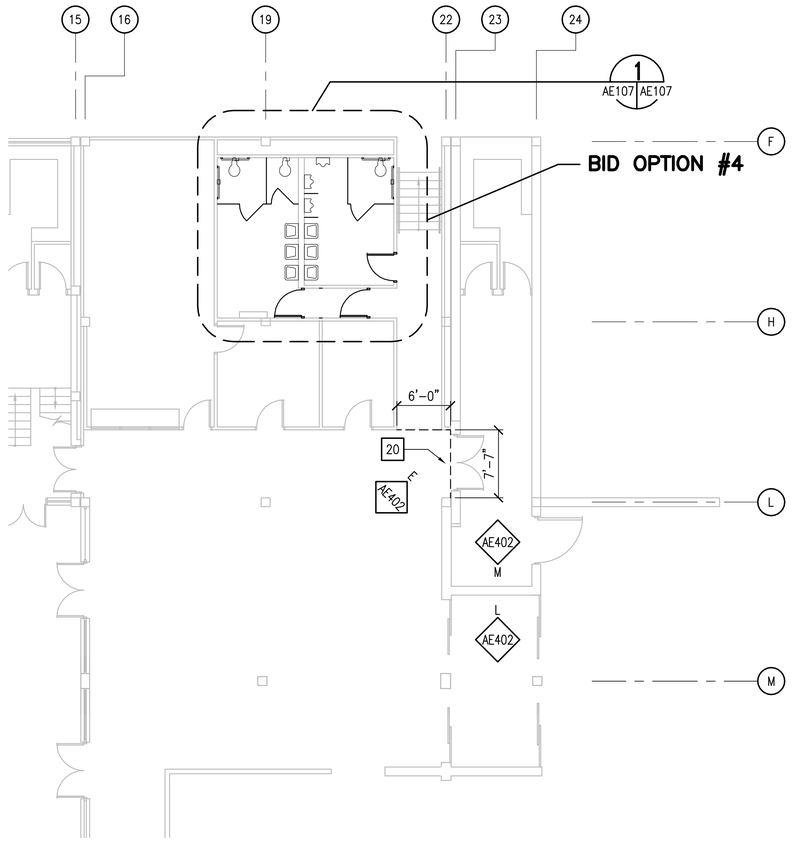
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183010

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 26 OF 106



1 TOILET PLAN "D" WING (BID OPTION #4)

AE107 | AE107 SCALE: 1/4" = 1'-0"



2 CHANGING ROOMS 'A' WING (BID OPTION #2)

AE101 | AE107 SCALE: 1/4" = 1'-0"

3 TOILET PLAN 'D' WING

AE107 | AE107 SCALE: 1/8" = 1'-0"

KEYNOTES

1. FURNISH AND INSTALL 2'-10" X 7'-0" SOLID CORE WOOD DOOR WITH LOUVER.
2. FURNISH AND INSTALL LAVATORY. (SEE PLUMBING DRAWINGS).
3. FURNISH AND INSTALL POLYMER TOILET PARTITIONS.
4. FURNISH AND INSTALL URINAL. (SEE PLUMBING DRAWINGS).
5. PATCH SUBSTRATE AT DEMOLISHED TOILET MOUNTS TO BE REMOVED.
6. FURNISH AND INSTALL MIRROR, 30" X 48" (MOUNT HORIZONTALLY OVER SINKS)
7. FURNISH AND INSTALL SHOWER.
8. FURNISH AND INSTALL WOOD BENCH.
9. FURNISH AND INSTALL 3'-0" X 7'-0" SOLID CORE DOOR WITH LOUVER.
10. FURNISH AND INSTALL TOILET. (SEE PLUMBING DRAWINGS).
11. FURNISH AND INSTALL FLOOR TO CEILING PARTITION WALL OF 3 5/8" METAL STUDS WITH 5/8" GYPSUM WALLBOARD BOTH SIDES.
12. FURNISH AND INSTALL VANITY. (SEE DETAIL 1/AE501).
13. FURNISH AND INSTALL CERAMIC TILE FLOORING.
14. FURNISH AND INSTALL LOCKER, 18" x 18"
15. PAINT EXISTING WALLS TO MATCH ADJACENT NEW CONSTRUCTION.
16. WHERE NEW STUDWALLS ABUTT EXISTING CONCRETE OR CMU WALLS, PROVIDE SEALANT AND J-CHANNEL AT GYPSUM WALLBOARD EDGES, BOTH SIDES.
17. FURNISH AND INSTALL 5/8" GYPSUM WALLBOARD ON FURRING FROM FLOOR TO CEILING WHERE CMU OR CONCRETE FACE ONTO AREA 118A.
18. FURNISH AND INSTALL PORCELAIN TILE FLOOR.
19. FURNISH AND INSTALL TILE WAINSCOT, 4'-0" HEIGHT.
20. FURNISH AND INSTALL 6" WOOD TRIM, STAINED TO MATCH EXISTING, OVER NEW CONDUIT AT ± 12'-0" A.F.F. (SEE E/402).

GENERAL NOTE

1. LEAVE ALL EXISTING CONDUIT IN PLACE FOR REUSE PER FP-SHEETS. REMOVE UNUSED CONDUITS NOT REQUIRED FOR WORK UNDER THESE CONTRACT DOCUMENTS (TYPICAL).

GRAPHIC SCALE

1/4" = 1'-0" 0 1' 5' 10' 15'

1/8" = 1'-0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
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SHEET NO.
AE107

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE — ROICC
SATISFACTORY TO: DATE — SAFETY
SATISFACTORY TO: — CUSTOMER
SATISFACTORY TO: — FIRE INSPECTOR
SATISFACTORY TO: DATE — DIRECTOR ENGINEERING DIV.
SATISFACTORY TO: DATE — PWO / OICC
SATISFACTORY TO: DATE — FACILITIES MAINTENANCE OFFICER

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

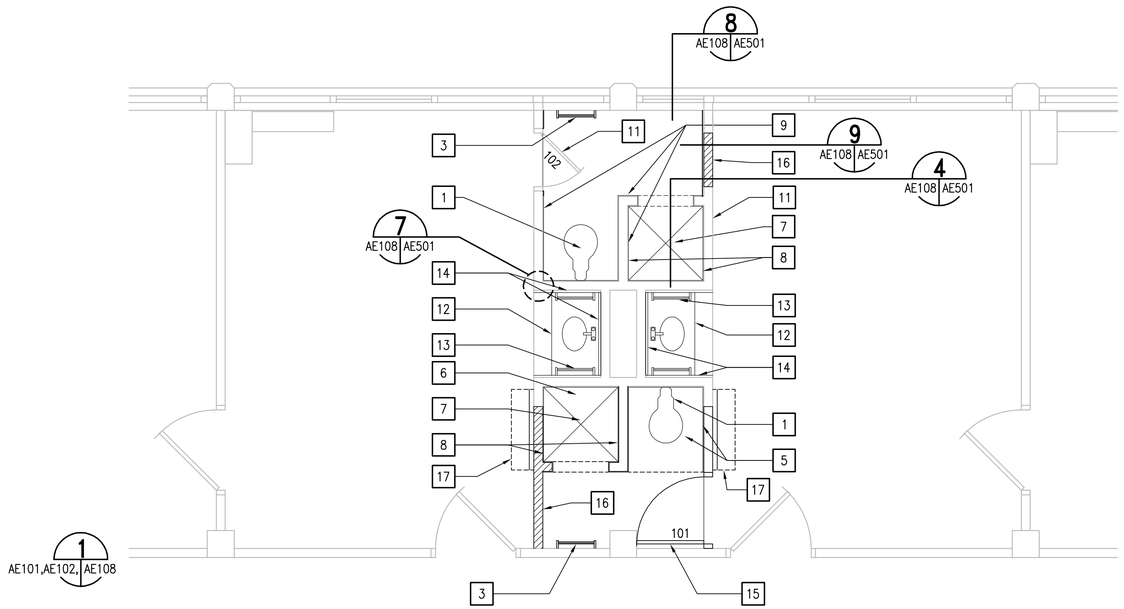
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TYPICAL MODULE PLANS

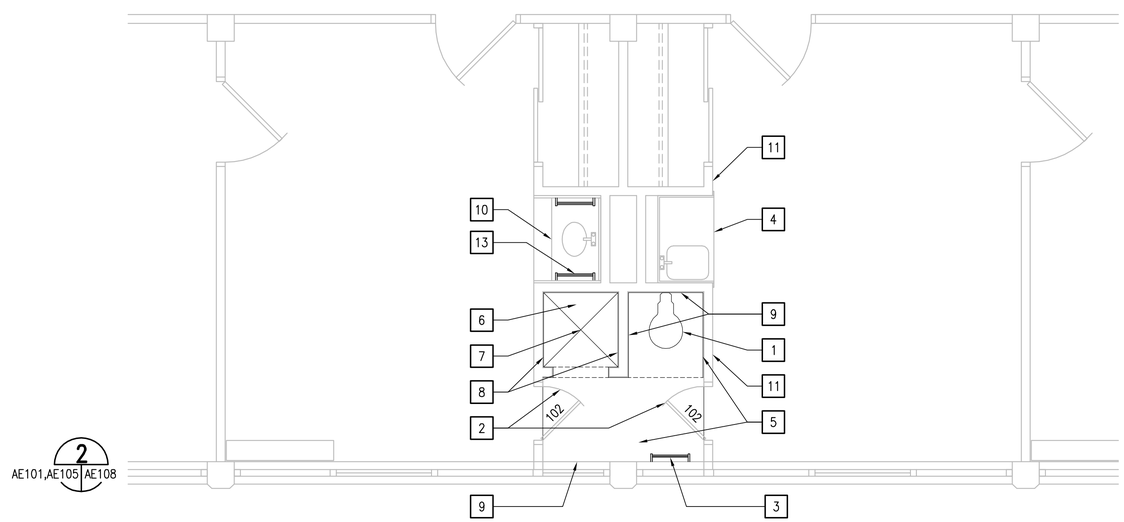
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183011

SCALE: NOTED SPEC. 21-02-1015 SHEET 27 OF 106



TYPICAL SINGLE QUARTERS PLAN

SCALE: 3/8" = 1'-0"



TYPICAL SUITE PLAN

SCALE: 3/8" = 1'-0"

KEYNOTES

1. FURNISH AND INSTALL TOILET FIXTURE, SEE PLUMBING DRAWINGS.
2. PATCH, REPAIR AND PAINT EXISTING WOODEN BATHROOM DOORS AS NEEDED.
3. FURNISH AND INSTALL (2) TOWEL BARS #925P, 24"L. PROVIDE BLOCKING AT EXTERIOR WALL.
4. EXISTING KITCHENETTE TO REMAIN.
5. FURNISH AND INSTALL 4x4 CERAMIC TILE WAINSCOT, 4' HEIGHT, AT ALL WALL SURFACES AND 8x8 CERAMIC TILE AT FLOOR SURFACES. PROVIDE COVE, OUTSIDE CORNER AND OTHER SPECIALTY TILE UNITS. SEE FINISH SCHEDULE FOR COLOR AND MANUFACTURER.
6. FURNISH AND INSTALL TERRAZZO SHOWER BASIN.
7. FURNISH AND INSTALL LIGHT FIXTURE AT SHOWER. SEE ELECTRICAL DRAWINGS.
8. FURNISH AND INSTALL 3-PIECE FIBERGLASS SHOWER UNIT #A-9970. FURNISH AND INSTALL CUSTOM ETCHED GLASS DOOR AT SHOWER.
9. FURNISH AND INSTALL PLASTER FINISH AT EXPOSED CMU WALLS.
10. FURNISH AND INSTALL VANITY CASEWORK; EXCEPT AT SECOND FLOOR 'C' WING.
11. FURNISH AND INSTALL 1/2" GYPSUM WALL BOARD ATTACHED TO WALLS WITH 7/8" HAT CHANNEL FURRING. PROVIDE J-CHANNEL AT TOP OF GWB AT CEILING.
12. FURNISH AND INSTALL VANITY CABINET.
13. FURNISH AND INSTALL TOWEL BAR.
14. FURNISH AND INSTALL 1/4" GWB. TO WALLS WITH MASTIC ADHESIVE AT VANITY ALCOVE.
15. FURNISH AND INSTALL DOOR PER SCHEDULE.
16. PATCH AND REPAIR EXISTING OPENINGS (SEE DEMO DRAWINGS).
17. FURNISH AND INSTALL 12"x36" WIDE SHELF AND COAT RACK SYSTEM. PROVIDE SYSTEM SIMILAR TO THE "400 SERIES" BY RAYMOND ENGINEERING, INC. WITH NICKEL CHROME FINISH.

GENERAL NOTE

1. EXISTING CONDUIT IS TO BE REUSED. ANY UNUSED CONDUIT REMOVED PER GENERAL NOTE 1 ON AD107 IS TO BE CAPPED AND EXPOSED WALL FROM WHICH IT IS REMOVED IS TO BE PATCHED, REPAIRED AND PAINTED TO MATCH ADJACENT WALLS (TYPICAL).

GRAPHIC SCALE

3/8" = 1'-0" 0 1' 2' 3' 4' 5' 10'

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK·NEXSEN
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SHEET NO.
AE108

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

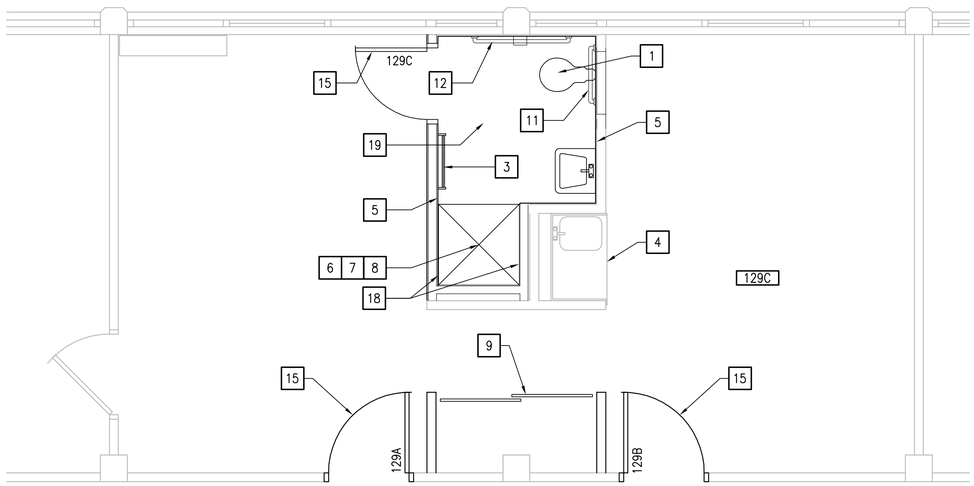
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TYPICAL MODULE PLANS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183012

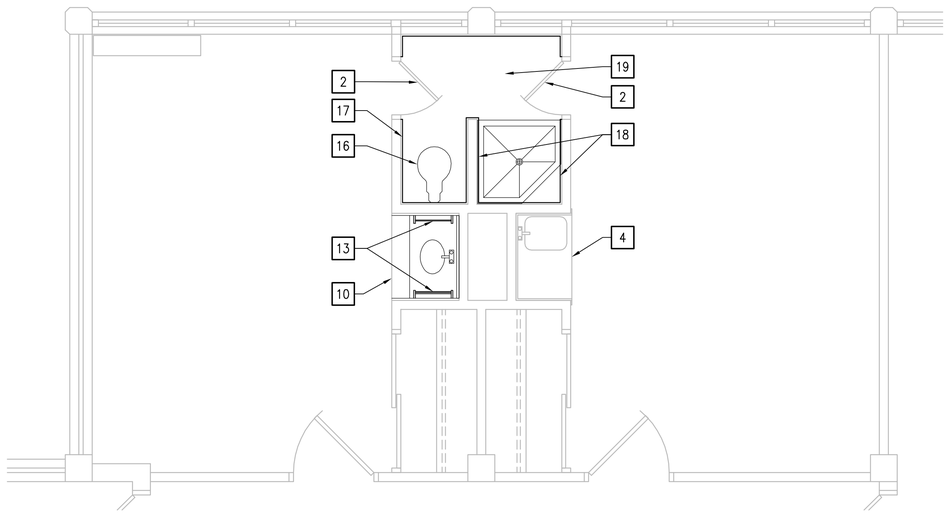
SCALE: NOTED | SPEC. 21-02-1015 | SHEET 28 OF 106



1 ENLARGED PLAN AT ADA SUITE

AE105 | AE109

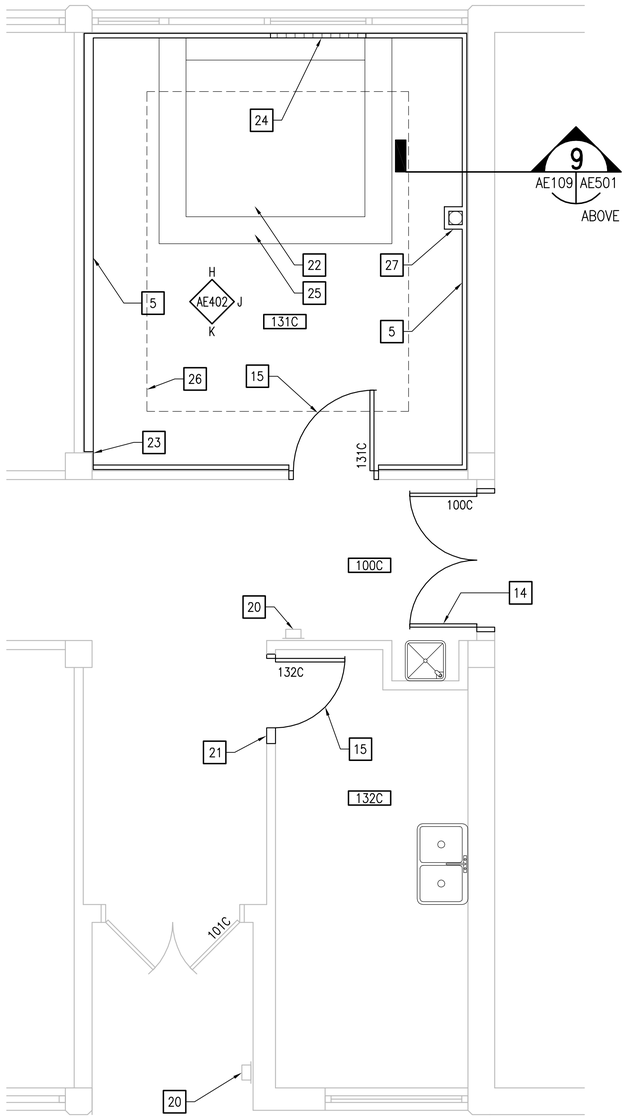
SCALE: 3/8" = 1'-0"



2 ENLARGED PLAN AT 'B' WING

AE103,AE104 | AE109

SCALE: 3/8" = 1'-0"



3 ENLARGED PLAN

AE105 | AE108

SCALE: 3/8" = 1'-0"

KEYNOTES

1. FURNISH AND INSTALL TOILET FIXTURE, SEE PLUMBING DRAWINGS.
2. PATCH, REPAIR AND PAINT EXISTING BATHROOM DOORS AS NEEDED.
3. FURNISH AND INSTALL (2) TOWEL BARS #925P, 24"L. PROVIDE BLOCKING AT EXTERIOR WALL.
4. EXISTING KITCHENETTE TO REMAIN.
5. FURNISH AND INSTALL 4x4 CERAMIC TILE WAINSCOT, 4' HEIGHT, OVER 1 7/8" METAL STUDS WITH 5/8" MOISTURE-RESISTANT GYPSUM WALLBOARD AT ALL WALL SURFACES AND 8x8 CERAMIC TILE AT FLOOR SURFACES. PROVIDE COVE, OUTSIDE CORNER AND OTHER SPECIALTY TILE UNITS. SEE FINISH SCHEDULE FOR COLOR AND MANUFACTURER.
6. FURNISH AND INSTALL TERRAZZO SHOWER BASIN.
7. FURNISH AND INSTALL LIGHT FIXTURE AT SHOWER. SEE ELECTRICAL DRAWINGS.
8. FURNISH AND INSTALL 3-PIECE FIBERGLASS SHOWER UNIT #A-9970.
9. FURNISH AND INSTALL BI-PASS CLOSET DOORS TRACKS AND FRAMES TO FIT 6'-0" WIDE OPENINGS.
10. PROVIDE VANITY CABINET WITH CHERRY STAIN AND ACRYLIC COOUNTERTOP WITH INTEGRAL BASIN, SEE 1/AF601.
11. FURNISH AND INSTALL 24" GRAB BAR.
12. FURNISH AND INSTALL 42" GRAB BAR.
13. FURNISH AND INSTALL TOWEL BAR.
14. FURNISH AND INSTALL PAIR OF 2'-6" DOORS WITH AUTOMATIC DOOR OPENERS. SEE ELECTRICAL DRAWINGS EL105 AND EL106.
15. FURNISH AND INSTALL DOOR. SEE DOOR SCHEDULE.
16. FURNISH AND INSTALL TOILET. SEE PLUMBING DRAWINGS.
17. FURNISH AND INSTALL 4' TILE WAINSCOT AND BULLNOSE TRIM AT TOP OF WAINSCOT.
18. FURNISH AND INSTALL FIBERGLASS SURROUND.
19. FURNISH AND INSTALL 8X8 CERAMIC TILE AT FLOOR SURFACES. PROVIDE COVE, OUTSIDE CORNER AND OTHER SPECIALTY UNITS. SEE FINISH SCHEDULE FOR COLOR AND MANUFACTURER.
20. TESA CARD READER TO AUTOMATIC DOOR OPENERS (SEE ELECTRICAL DRAWINGS).
21. PATCH AND MATCH EXISTING GYPSUM WALLBOARD TO ADJACENT WALL FOR ENLARGED DOOR.
22. INSTALL HOT TUB. SEE DRAWINGS PL105, MH105 AND EL106.
23. ALIGN FACE OF STUD FURRING WITH FACE OF COLUMN AND ADHERE GYPSUM WALLBOARD TO COLUMN WITH MOISTURE-RESISTANT MASTIC.
24. FURNISH AND INSTALL ACRYLIC 'GLASS' BLOCK ASSEMBLY AT EXISTING WINDOW FACE. LEAVE EXISTING WINDOW IN PLACE.
25. THERAPEUTIC TUB MANUFACTURER'S STANDARD WOOD BENCH @ PERIMETER.
26. LINE OF GWB/BULKHEAD TRANSITION ABOVE AT 7'-4" (VIF). CENTER ACT GRID ON SPACE AT 7'-6" (VIF). (SEE ALSO SHEET AE401 AND DETAIL 6/AE109/AE501 FOR TYPICAL SOFFIT/BULKHEAD DETAIL.
27. FURNISH AND INSTALL GWB AND FURRING AROUND EXISTING 6"ø DRAIN LINE. (SEE PLUMBING DRAWINGS).

GRAPHIC SCALE

3/8" = 1'-0"

0 1' 2' 3' 4' 5' 10'

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
AE109

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES LMS
DRWN MOH
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

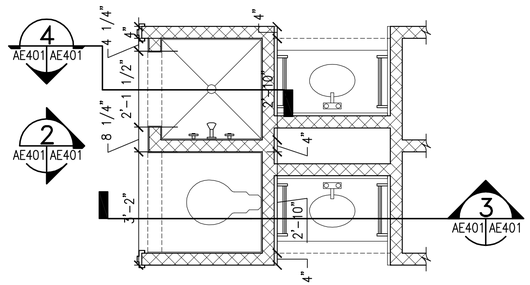
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED PLANS

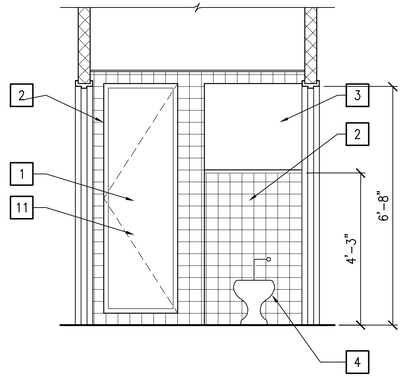
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183013

SCALE: NOTED SPEC. 21-02-1015 SHEET 29 OF 106



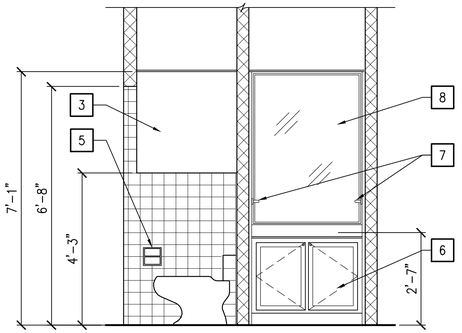
1 PLAN AT TYPICAL SINGLE QUARTERS

AE101, AE108 | AE401 SCALE: 1/2" = 1'-0"



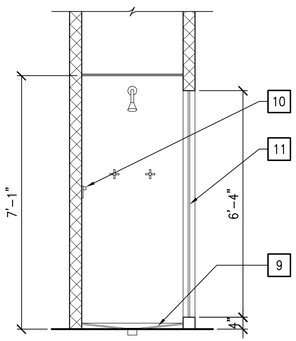
2 ELEVATION AT S. QUARTERS

AE401 | AE401 SCALE: 1/2" = 1'-0"



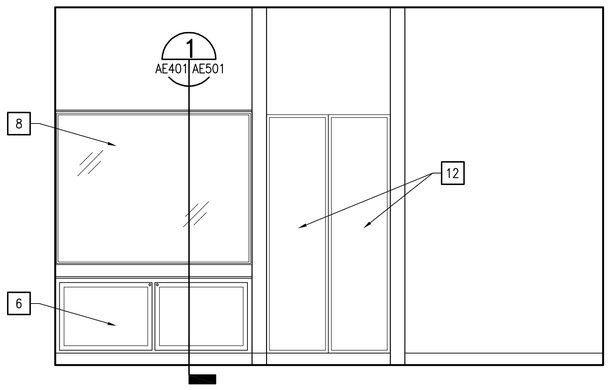
3 ELEVATION AT S. QUARTERS

AE401 | AE401 SCALE: 1/2" = 1'-0"



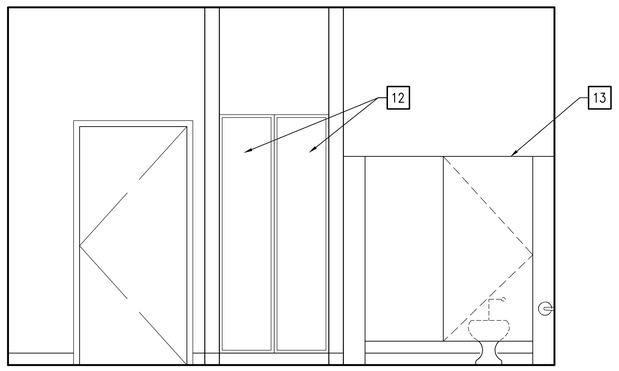
4 SHOWER

AE401 | AE401 SCALE: 1/2" = 1'-0"



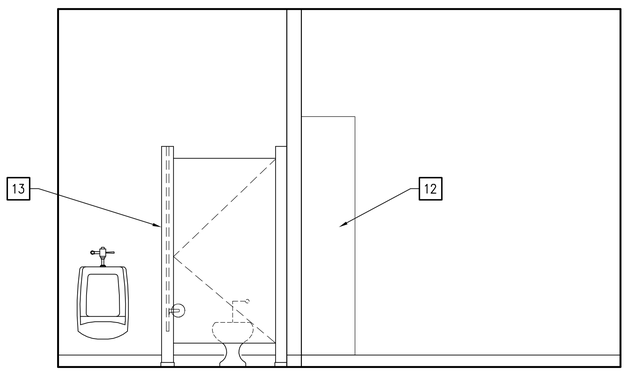
5 ELEVATION AT CHANGING ROOM 119A

AE107 | AE401 SCALE: 1/2" = 1'-0"



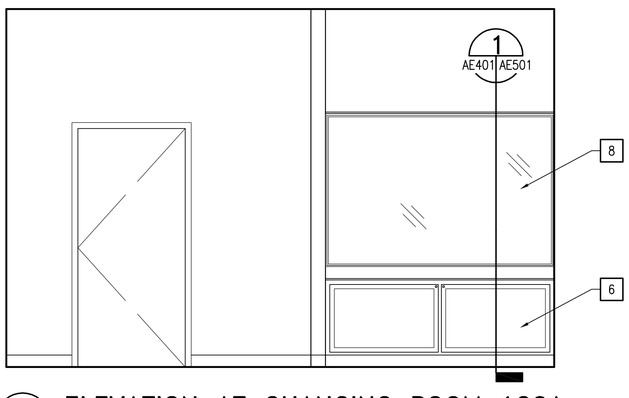
6 ELEVATION AT CHANGING ROOM 119A

AE107 | AE401 SCALE: 1/2" = 1'-0"



7 ELEVATION AT CHANGING ROOM 120A

AE107 | AE401 SCALE: 1/2" = 1'-0"



8 ELEVATION AT CHANGING ROOM 120A

AE107 | AE401 SCALE: 1/2" = 1'-0"

KEYNOTES

1. FURNISH AND INSTALL FIBERGLASS SHOWER SURROUND, SEE PLUMBING DRAWINGS.
2. FURNISH AND INSTALL CERAMIC TILE.
3. FURNISH AND INSTALL PLASTER
4. FURNISH AND INSTALL TOILET (SEE PLUMBING DRAWINGS).
5. FURNISH AND INSTALL TOILET PAPER DISPENSER.
6. FURNISH AND INSTALL VANITY CABINET. SEE DETAIL 1/AE501.
7. FURNISH AND INSTALL STAINLESS STEEL TOWEL BARS.
8. FURNISH AND INSTALL MIRROR.
9. FURNISH AND INSTALL TERRAZZO SHOWER BASIN (SEE PLUMBING DRAWINGS).
10. FURNISH AND INSTALL INTEGRAL SOAP HOLDER AT FIBERGLASS UNIT.
11. FURNISH AND INSTALL GLASS SHOWER DOOR.
12. FURNISH AND INSTALL FULL HEIGHT LOCKERS.
13. FURNISH AND INSTALL TOILET PARTITION

GRAPHIC SCALE

1/2" = 1'-0" 0 6" 1' 2' 3' 4' 5'

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
AE401

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
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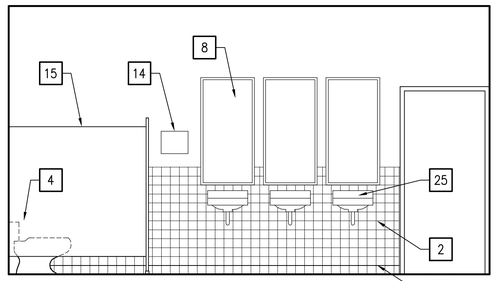
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED PLAN / TOILET ELEVATIONS

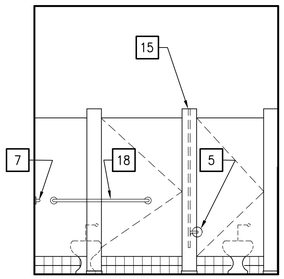
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183014

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 30 OF 106



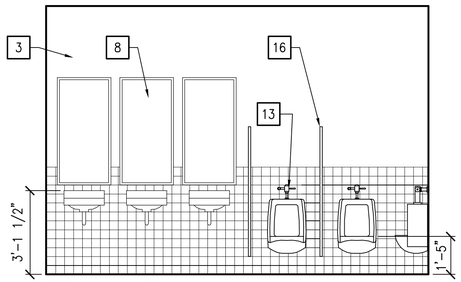
A WOMEN'S TOILET, 127D

AE107 AE402 SCALE: 3/8" = 1'-0"



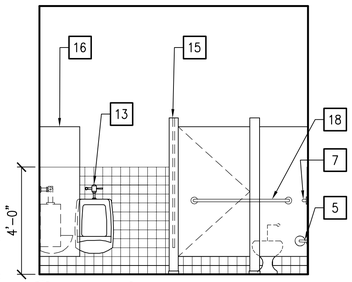
B WOMEN'S TOILET, 127D

AE107 AE402 SCALE: 3/8" = 1'-0"



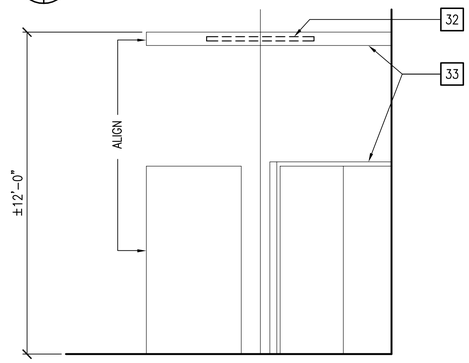
C MEN'S TOILET, 128D

AE107 AE402 SCALE: 3/8" = 1'-0"



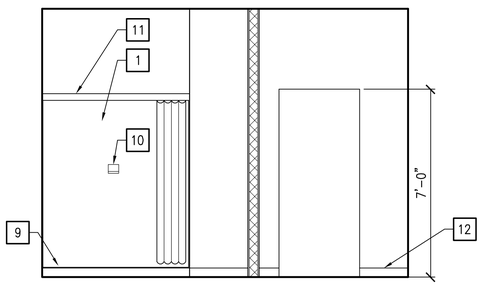
D MEN'S TOILET, 128D

AE107 AE402 SCALE: 3/8" = 1'-0"



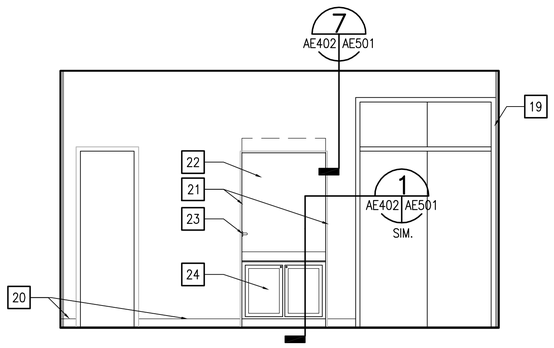
E LOBBY (OBLIQUE VIEW)

AE107 AE402 SCALE: 3/8" = 1'-0"



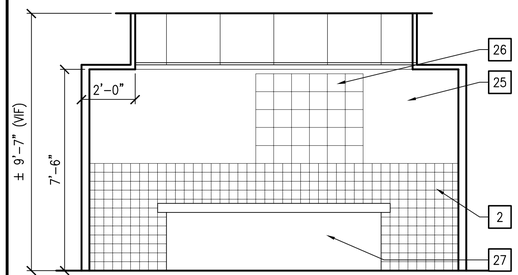
F CHANGING ROOM 119A, "A" WING (BID OPTION #2)

AE107 AE402 SCALE: 3/8" = 1'-0"



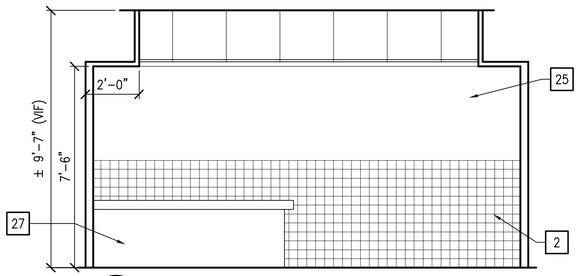
G TYPICAL SLEEPING QUARTERS

AE AE402 SCALE: 3/8" = 1'-0"



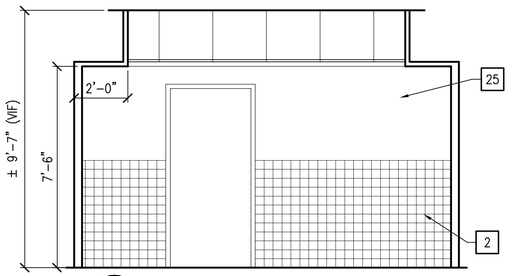
H PHYSICAL THERAPY ROOM

AE109 AE402 SCALE: 3/8" = 1'-0"



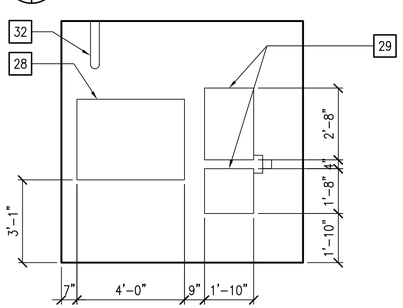
J PHYSICAL THERAPY ROOM

AE109 AE402 SCALE: 3/8" = 1'-0"



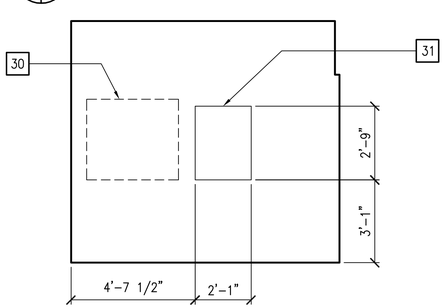
K PHYSICAL THERAPY ROOM

AE109 AE402 SCALE: 3/8" = 1'-0"



L EXISTING ENTRY FOYER WALL

AE107 AE402 SCALE: 3/8" = 1'-0"



M EXISTING STAIR WALL

AE107 AE402 SCALE: 3/8" = 1'-0"

KEYNOTES

1. FIBERGLASS SHOWER SURROUND. SEE PLUMBING DRAWINGS.
2. CERAMIC TILE.
3. PLASTER
4. FURNISH AND INSTALL TOILET (SEE PLUMBING DRAWINGS).
5. FURNISH AND INSTALL TOILET PAPER DISPENSER. PARTITION MOUNTED OR SURFACE MOUNTED.
6. FURNISH AND INSTALL VANITY CABINET.
7. 42" GRAB BAR WITH BLOCKING BACK UP. PROVIDE END OF SUPPORT BRACKET 12" FROM FACE OF BACK WALL.
8. FURNISH AND INSTALL MIRROR (24" W x 40" H).
9. FURNISH AND INSTALL TERRAZZO SHOWER BASIN (SEE PLUMBING DRAWINGS).
10. FURNISH AND INSTALL INTEGRAL SOAP HOLDER AT FIBERGLASS UNIT.
11. FURNISH AND INSTALL SHOWER CURTAIN AND ROD.
12. CERAMIC TILE BASE.
13. URINALS, SEE PLUMBING DRAWINGS.
14. SURFACE MOUNTED PAPER TOWEL DISPENSER.
15. FLOOR MOUNTED POLYMER TOILET PARTITION SYSTEM.
16. POLYMER URINAL SCREEN.
17. GLASS MIRROR WITH STAINLESS STEEL TOP AND BOTTOM CHANNELS.
18. 42" GRAB BAR WITH BLOCKING BACKUP. PROVIDE END OF SUPPORT BRACKET 12" FROM FACE OF BACK WALL.
19. FURNISH AND INSTALL 1/2" GYPSUM WALL BOARD (GWB) WITH 7/8" HAT CHANNEL FURRING. PAINT WALLS.
20. FURNISH AND INSTALL STAIN RESISTANT CARPET WITH A 4" CARPET BASE.
21. FURNISH AND INSTALL 1/4" GWB; MASTICALLY ADHERE TO WALLS AT VANITY ALCOVE.
22. FURNISH AND INSTALL FULL WIDTH GLASS MIRROR.
23. FURNISH AND INSTALL STAINLESS STEEL TOWEL BAR. 925P, 18"L. BY "BASCO".
24. FURNISH AND INSTALL VANITY CABINET W/ CHERRY STAIN (TO MATCH KITCHENETTE FINISH) AND SOLID ACRYLIC COUNTER WITH INTEGRAL BASIN, SIDE AND BACK SPLASHES. CONNECT TO EXISTING PLUMBING. BUILD CUSTOM TO FIT WIDTH OF ALCOVE.
25. GYPSUM WALLBOARD.
26. ACRYLIC 'GLASS' BLOCK.
27. THERAPEUTIC TUB
28. EXISTING DISPLAY BOARD TO REMAIN.
29. EXISTING PANELS TO BE REMOVED. PATCH AND REPAIR SCREW ANCHOR HOLES.
30. AREA OF NEW FIRE ALARM PANEL
31. EXISTING TELEPHONE TO REMAIN.
32. REUSE EXISTING CONDUIT IN PLACE AND PROVIDE 6" CROWN MOLDING, HARDWOOD, FINISH TO MATCH EXISTING WOOD TRIM, SEE 2/AF601.
33. FURNISH AND INSTALL 6" WOOD TRIM, STAINED TO MATCH EXISTING.

GRAPHIC SCALE

3/8" = 1'-0" 0 1' 2' 3' 4' 5' 10'

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
AE402

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC
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SAFETY
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SATISFACTORY TO: DATE
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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

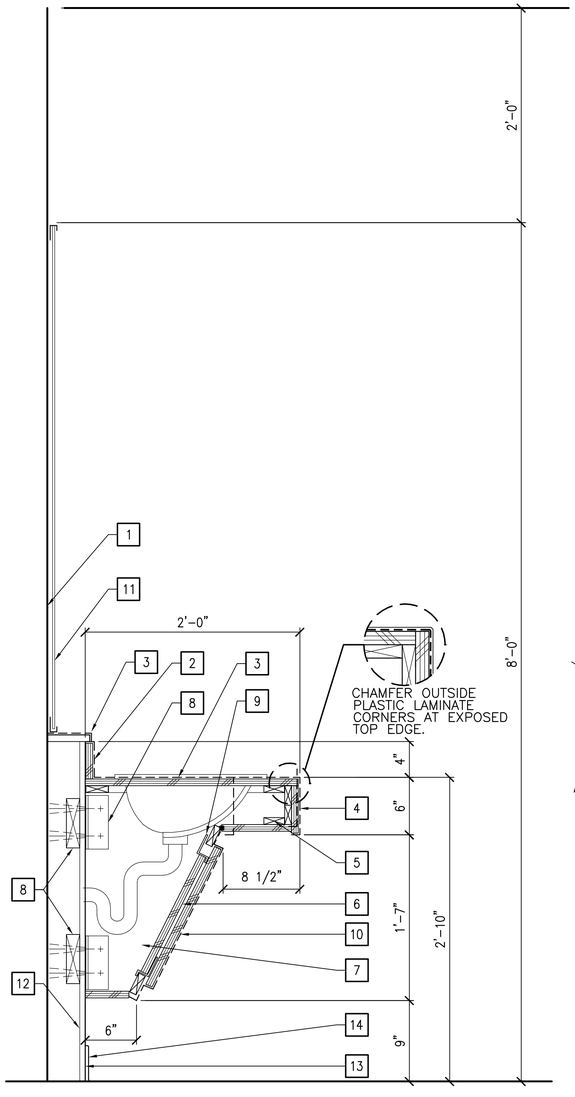
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED PLAN / INTERIOR ELEVATIONS

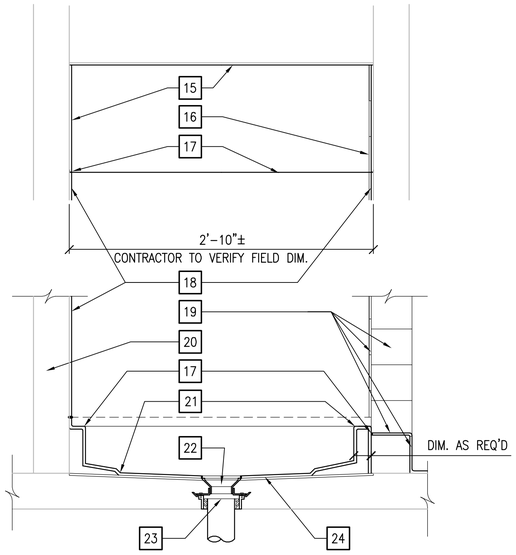
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183015

SCALE: NOTED SPEC. 21-02-1015 SHEET 31 OF 106



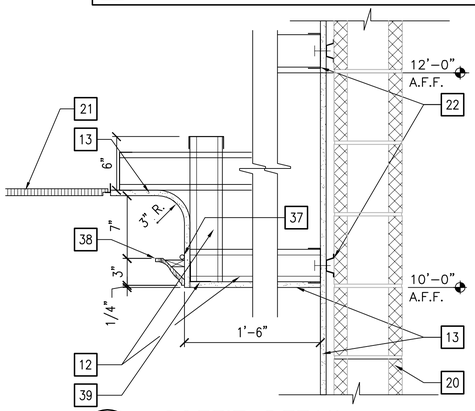
1 AE107 AE501 VANITY COUNTER SECTION

SCALE: 1 1/2" = 1'-0"



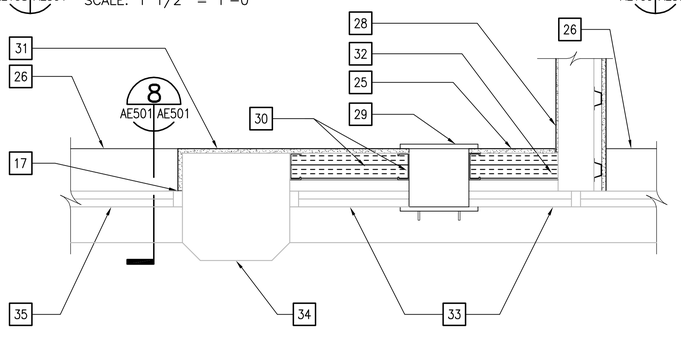
4 AE108 AE501 DETAIL AT SHOWER

SCALE: 1 1/2" = 1'-0"



6 AE109 AE501 SOFFIT DETAIL

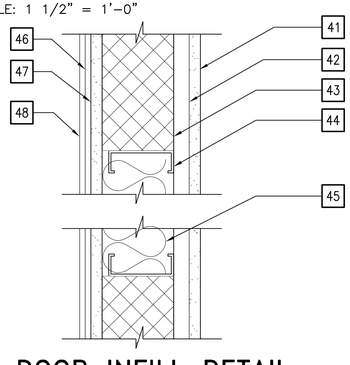
SCALE: 1 1/2" = 1'-0"



8 AE501 AE501

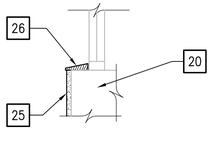
5 AE108 AE501 DETAIL AT EXHAUST FAN

SCALE: 1 1/2" = 1'-0"



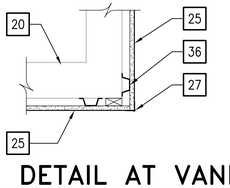
9 AE108 AE501 DOOR INFILL DETAIL

SCALE: 3" = 1'-0"



8 AE108 AE501 DETAIL AT SILL

SCALE: 1 1/2" = 1'-0"



7 AE108 AE501 DETAIL AT VANITY

SCALE: 1 1/2" = 1'-0"

KEYNOTES

38	CROWN MOLDING, SEE 2/AF601.
39	CORNER ANGLE; 2.25 x 2.25 x 24 GUAGE.
40	COORDINATE ALIGNMENT OF 7/8" FURRING CHANNELS.
41	EXISITING 4" CMU.
42	5/8" GYPSUM WALL BOARD.
43	7/8" FURRING.
44	3 5/8" METAL STUDS AT 16" O.C., MINIMUM.
45	SOUND BATT INSULATION.
46	PLASTER FINISH AT CMU WALLS.
46	PLASTER FINISH AT CMU WALLS.
47	CEMENTITOUS BACKER BOARD.
48	TILE WAINSCOT BEYOND.

KEYNOTES

1	FACE OF WALL.
2	3/4" BACK SPLASH WITH PLASTIC LAMINATE FINISH.
3	3/4" PLY WOOD COUNTERTOP WITH PLASTIC LAMINATE FINISH.
4	3/4" PLYWOOD FACIA PANEL.
5	3/4" X 2 1/2" HARDWOOD WEB FRAME (TYPICAL).
6	3/4" PLYWOOD SUB PANEL.
7	SUPPORT DIVIDER, ONE BETWEEN EACH LAVATORY AND AT EACH END.
8	STEEL CLIP ANGLES 2" X 2" X 6" LONG. TOP AND BOTTOM OF EACH SUPPORT DIVIDER. ANCHOR TO PRESSURE TREATED BLOCKING WITH FASTENER.
9	METAL CLIP TOP AND BOTTOM AND AT EACH END OF REMOVABLE PANEL SO PANEL CAN BE SLID UP AND OUT FROM THE BOTTOM.
10	3/4" PLYWOOD REMOVABLE PANEL WITH PLASTIC LAMINATE ALL SIDES (USED AT ROOMS 119A AND 120A ONLY).
11	FULL WIDTH MIRROR, 4'-6" TALL.
12	3 5/8" METAL STUD.
13	5/8" GWB.
14	CERAMIC TILE BASE.
15	WATER RESISTANT GYPSUM WALL BOARD.
16	CERAMIC TILE, SEE FINISH SCHEDULE.
17	SEALANT
18	PROVIDE THREE-PIECE FIBERGLASS SHOWER UNIT, A-9970 ESTATE SHOWER WALL SYSTEM BY FIAT, OR APPROVED EQUAL.
19	4" x 4" CERAMIC TILE: SEE PLAN NOTES FOR COLOR.
20	EXISTING CMU.
21	ACOUSTICAL CEILING SYSTEM.
22	COORDINATE ALIGNMENT OF 7/8" FURRING CHANNELS.
23	CORE DRILL EXISTING CONC. SLAB AS REQUIRED TO INSTALL FLOOR DRAIN.
24	PATCH AND REPAIR EXISTING CONC. SHOWER FLOOR.
25	1/2" GWB.
26	POPLAR SILL WITH CHERRY STAIN.
27	CORNER BEAD AND WOOD BLOCKING AT CORNERS.
28	1/4" GWB MASTICALLY ADHERED TO EXISTING CMU.
29	THROUGH WALL EXHAUST FAN #8870 BY 'NUTONE'; PAINT TO MATCH ADJACENT EXTERIOR COLOR.
30	METAL STUD.
31	1/2" GWB MASTICALLY ADHERED TO EXISTING COLUMN.
32	R13 BATT INSULATION.
33	EXISTING INFILL PANEL.
34	EXISTING CONCRETE COLUMN
35	EXISTING WINDOW.
36	7/8" HAT CHANNEL.
37	FIBER OPTIC CABLE, SEE EL602.

GRAPHIC_SCALE

1 1/2" = 1'-0" 0 3" 6" 9" 1' 2'

SEAL

COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
AE501

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC	DATE	SATISFACTORY TO: DIRECTOR ENGINEERING DIV.	DATE
SATISFACTORY TO: SAFETY	DATE	SATISFACTORY TO: PWO / OICC	DATE
SATISFACTORY TO: CUSTOMER	DATE	SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER	DATE
SATISFACTORY TO: NAVFAC_NO FIRE INSPECTOR, NO	DATE		

DES LMS
DRWN
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

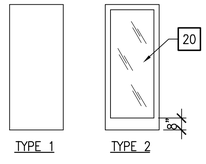
DETAILS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183016

SCALE: NOTED SPEC. 21-02-1015 SHEET 32 OF 106

DOOR SCHEDULE

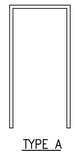
DOOR				FRAME AND DETAILS						MISCELLANEOUS
NUMBER	SIZE	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	HARDWARE	REMARKS
100C	(2) 2'-6" x 6'-8"x 1 3/4"	2	ALUMINUM	A	ALUM	-	-	S1	-	2, 4
101	2'-6" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J4	S1	4	3
101C	(2) 2'-6" x 7'-0"x 1 3/4"	1	EXISTING HM	-	METAL	-	-	-	-	4
102	2'-6" x 6'-8" x 1 3/8"	1	EXISTING WOOD	-	-	-	J3	-	-	1
118A	(2) 2'-6" x 6'-8" x 1 3/4"	1	METAL	A	METAL	H1	J1	S3	3	
118B	(2) 2'-6" x 6'-8" x 1 3/4"	2	ALUMINUM	A	ALUM	-	-	S2	-	2
119A	3'-0" x 6'-8" x 1 3/4"	1	WOOD	A	METAL	H2	J2	S1	5	
119B	3'-0" x 6'-8" x 1 3/4"	1	WOOD	A	METAL	H2	J2	S2	7	
120A	3'-0" x 6'-8" x 1 3/4"	1	WOOD	A	METAL	H2	J2	S1	5	
120B	3'-0" x 6'-8" x 1 3/4"	1	WOOD	A	METAL	H2	J2	S2	7	
121A	3'-0" x 6'-8" x 1 3/4"	1	WOOD	A	METAL	H2	J2	S2	1	
127A	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H2	J2	S2	2	
127B	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H2	J2	-	2	
128A	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J1	S1	2	
129A	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J4	-	8	
129B	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J4	-	8	
129C	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J3	S2	6	
130A	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J1	-	8	
130B	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J1	-	8	
130C	3'-0" x 6'-8" x 1 3/8"	1	WOOD	A	METAL	H1	J1	S2	6	
131C	3'-0" x 6'-8" x 1 3/8"	1	ALUMINUM	A	ALUM	H1	J1	S2	-	2
132C	3'-0" x 6'-8" x 1 3/4"	1	HOLLOW METAL	A	METAL	H1	J1	S1	2	
200A	(2) 2'-6" x 7'-0"x 1 3/4"	1	EXISTING HM	-	METAL	-	-	-	-	4



TYPE 1 TYPE 2

DOOR TYPES

SCALE: 1/4" = 1'-0"



TYPE A

FRAME TYPES

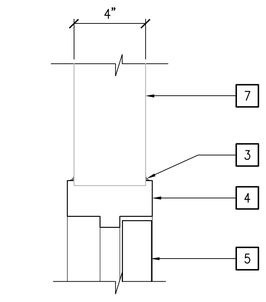
SCALE: 1/4" = 1'-0"

REMARKS

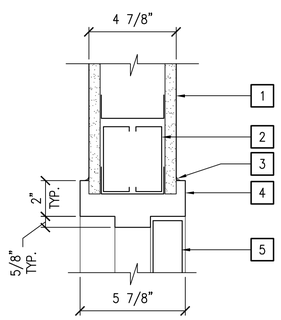
1. EXISTING TO REMAIN AT 81 LOCATIONS. PATCH AND REPAIR EXISTING BATHROOM DOORS FOR PAINT.
2. REFER TO SECTION 08120 FOR DOOR HARDWARE.
3. PROVIDE DOOR AT 34 LOCATIONS
4. TESA CARD READER TO AUTOMATIC DOOR OPENER (SEE ELECTRICAL DRAWINGS).

NOTES

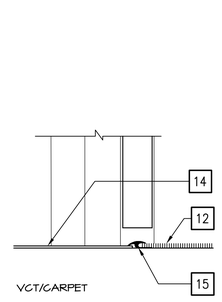
1. 5/8" GYPSUM WALL BOARD
2. PROVIDE DOUBLE STUD HEADERS FOR OPENINGS OVER 4'-0".
3. CONTINUOUS SEALANT, BOTH SIDES
4. METAL FRAME
5. DOOR, SEE SCHEDULE
6. DOUBLE STUDS AT JAMBS, TYPICAL
7. EXISTING CMU WALL
8. METAL STUD PARTITION FRAME ANCHOR. PROVIDE 3 MINIMUM PER JAMB.
9. JAMB ANCHOR FOR EXISTING MASONRY WALL. PROVIDE 3 MINIMUM PER JAMB.
10. TILE FLOORING
11. HOLLOW METAL FRAME, BEYOND.
12. CARPET
13. MARBLE THRESHOLD, WHERE SCHEDULED.
14. VCT
15. VINYL TRANSITION STRIP
16. FLOOR FINISH AS SCHEDULED.
17. 3"x1/2" ALUMINUM HALF SADDLE THRESHOLD.
18. CONCRETE FLOOR
19. FIELD VERIFY WALL THICKNESS AND FRAME WIDTH.
20. 1/4" TEMPERED SAFETY GLASS.
21. 3/8" POPLAR.
22. EXISTING WALL.
23. 7/8" HAT CHANNEL.
24. 1/2" GWB.
25. SOLID WOOD NAILER.
26. EXISTING METAL FRAME.
27. POPLAR TRIM PROFILE MASTICALLY ADHERED TO EXISTING METAL FRAME.
28. DOOR.
29. 3/8" POPLAR.
30. POPLAR TRIM PROFILE MASTICALLY ADHERED TO EXISTING METAL FRAME.
31. 1/2" GWB.
32. POPLAR TRIM PROFILE NAILED AND ADHERED TO EXISTING METAL FRAME WITH MASTIC.
33. EXISTING CMU WALL.
34. SOLID WOOD NAILER.
35. EXISTING DOOR FRAME TO REMAIN.
36. DOOR, AS SCHEDULED.



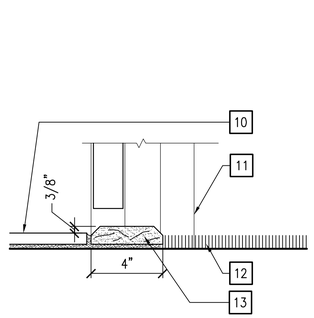
H1 HEAD
AE601 | AE601 SCALE: 3" = 1'-0"



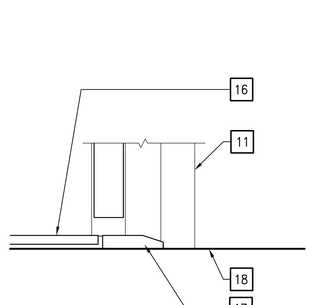
H2 HEAD
AE601 | AE601 SCALE: 3" = 1'-0"



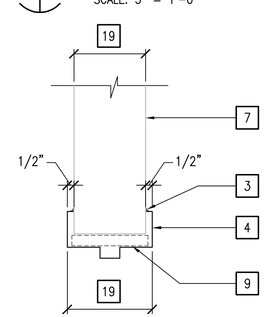
S1 SILL
AE601 | AE601 SCALE: 3"= 1'-0"



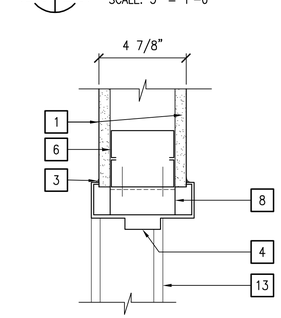
S2 SILL
AE601 | AE601 SCALE: 3"= 1'-0"



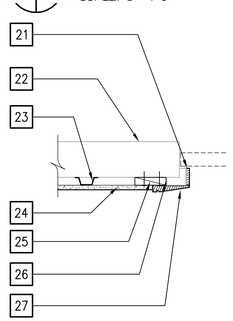
S3 SILL
AE601 | AE601 SCALE: 3"= 1'-0"



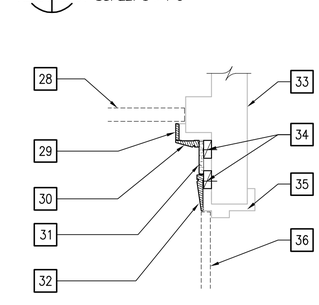
J1 JAMB
AE601 | AE601 SCALE: 3" = 1'-0"



J2 JAMB
AE601 | AE601 SCALE: 3" = 1'-0"



J3 JAMB
AE601 | AE601 SCALE: 3" = 1'-0"



J4 JAMB
AE601 | AE601 SCALE: 3" = 1'-0"

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

CLARK•NEXSEN
Architecture & Engineering

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SHEET NO.
AE601

DES	.LMS				
DRWN	.LMS				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

DOOR SCHEDULE

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183017

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 33 OF 106

INTERIOR FINISH SCHEDULE

ROOM		FLOOR		WALL & BASE		CEILING			
NO.	NAME	EXISTING MATERIAL	FINISH MAT CODE	EXISTING MATERIAL	FINISH MAT CODE	EXISTING MATERIAL	FINISH MAT CODE	HEIGHT	REMARKS
	*	MOSAIC TILE	CT1 GR1	CERAMIC TILE	CT2	GWB	PT1	VARIES	
117A	LAUNDRY ROOM	CONCRETE			–	CONCRETE	PT1	EXISTING	
118A	NEW HALL	CONCRETE	CT1	CMU/CONCRETE	PT3/CT2	CONCRETE	PT1	EXISTING	
119A	CHANGING ROOMS	CONCRETE	CT1	CMU	PT3/CT2	CONCRETE	PT1 ACT	8'–0"	
120A	CHANGING ROOMS	CONCRETE	CT1	CMU	PT3/CT2	CONCRETE	PT1	8'–0"	
121A	OFFICE	CONCRETE	CPT1	CMU	PT3/CPT1	CONCRETE	GWB/PT1	8'–0"	
127A	WOMEN'S	TILE	CT7	CERAMIC TILE	PT3/CT6	CONCRETE	PT1	EXISTING	
128A	MEN'S	TILE/CARPET	CT7	CERAMIC TILE	PT3/CT6	CONCRETE	PT1	EXISTING	
131C	PHYSICAL THERAPY	CONCRETE	CT4	CMU	CT5	CONCRETE	GWB/PT1 ACT	VARIES	
132C	LAUNDRY ROOM	CONCRETE	–	CMU	PT2	CONCRETE	PT1	EXISTING	

* TYPICAL BATHROOM FINISHES AT LIVING/SLEEPING QUARTERS AT 81 LOCATIONS. (INCLUDES A, B AND C WINGS AND ADA BATHROOMS AT SUITES 129 AND 130). AND SUITES AT 34 LOCATIONS, REFER TO DRAWING SHEET AE108.

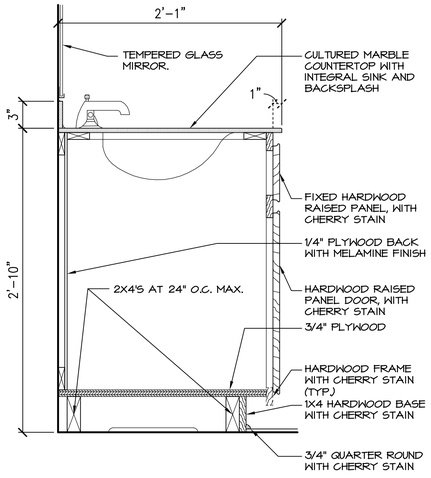
PAINT OR COLOR INDICATED IS FOR REFERENCE ONLY, ARCHITECT SHALL MAKE FINAL SELECTION FROM MANUFACTURER'S FULL RANGE OF CUSTOM COLORS.

INTERIOR FINISH CODES

CODE	MATERIALS	DESCRIPTION
ACT1	CEILING TILE	ARMSTRONG FINE FISSURED 1732
CT1	TILE	AMERICAN OLEAN, NATURAL, #IG06 "ALGARVE"
CT2	CERAMIC WALL TILE	AMERICAN OLEAN, GLAZED, #EA07 "GLOSS LINEN". PROVIDE BULLNOSE TRIM AT TOP OF TILE WAINSCOT.
CT3	CERAMIC TILE ACCENT	ADALTILE, MATTE FINISH, #6545 "MATTE–DOE"
CT4	FLOOR TILE	DALTILE, NATURAL FINISH, ROCKY MOUNTAIN SERIES, COLOR: 804 GRIGIO (AM03).
CT5	WALL TILE	AMERICAN OLEAN, #21 BRIGHT LIGHT ASPEN
CT6	WALL TILE	AMERICAN OLEAN, #87 ALMOND, MATTE FINISH
CT7	FLOOR TILE	DALTILE, NATURAL FINISH, ANTICA ROMA SERIES, COLOR: VIMINALE (AM03).
CPT1	CARPET	BENTLEY, COORDINATES, PATTERN: MERCATOR, COLOR: #8581 "MINUTES" (GREEN/BLACK/GREY)
GR4	GROUT	MAPEI, #16 "MALT"
PT1	PAINT (GWB)	BENJAMIN MOORE, #2121–70, "CHANTILLY LACE"
PT2	PAINT	BENJAMIN MOORE, #06–118, "SNOWFALL WHITE"
PT3	PAINT	BENJAMIN MOORE, "CHINA WHITE"

KEYNOTES

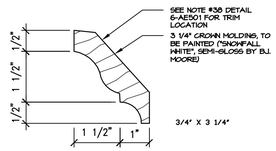
1. 5/8" GYPSUM WALL BOARD
2. PROVIDE DOUBLE STUD HEADERS FOR OPENINGS OVER 4'–0".



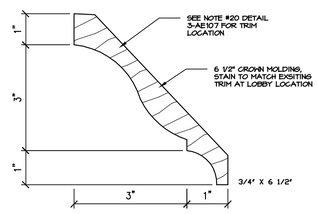
NOTE: VANITY CABINET IS TYPICAL AT SLEEPING QUARTERS LOCATIONS.

AI AF601 | AEXXX VANITY CABINET SECTION

SCALE: 1 1/2" = 1'–0"



3 1/4" CROWN MOLDING



6 1/2" CROWN MOLDING

AB AF601 | AE CASEWORK DETAILS

SCALE: 6" = 1'–0"

GRAPHIC SCALE

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
AF601

SEAL
COMMONWEALTH OF VIRGINIA
ROBERT E. MIDDLEBROOKS
No. 6324
ARCHITECT

SATISFACTORY TO: ROICC — DATE
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SATISFACTORY TO: FIRE INSPECTOR

DES LMS
DRWN
CHECKED: ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FINISH SCHEDULE

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183018

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 34 OF 106

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	CW	HW	WASTE	VENT	REMARKS
P-1	WATER CLOSET	1"	–	4"	2"	FLOOR MOUNTED, FLUSH VALVE
P-2	WATER CLOSET FOR HANDICAPPED	1"	–	4"	2"	FLOOR MOUNTED, FLUSH VALVE
P-3	WATER CLOSET	1/2"	–	4"	2"	FLOOR MOUNTED, FLUSH TANK
P-4	URINAL	3/4"	–	2"	1 1/2"	WALL MOUNTED, FLUSH VALVE
P-5	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED OVAL INTEGRAL WITH COUNTERTOP
P-6	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	OVAL UNDERCOUNTER MOUNT
P-7	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	WALL MOUNTED
P-8	SHOWER	1/2"	1/2"	2" FD	1 1/2"	PRESSURE BALANCED
P-9	SHOWER	1/2"	1/2"	2" FD	1 1/2"	PRESSURE BALANCED
P-10	WATER CLOSET FOR HANDICAPPED	1/2"	–	4"	2"	FLOOR MOUNTED, FLUSH TANK
P-11	SHOWER FOR HANDICAPPED	1/2"	1/2"	2" FD	1 1/2"	PRESSURE BALANCED
P-12	THERAPEUTIC TUB	1/2"	1/2"	2"	1 1/2"	FIBERGLASS MODULE – SEE SPECIFICATIONS

NOTES:

TEMPERATURE MIXING VALVE SCHEDULE

VALVE NO.	FLOW RANGE GPM	TEMP RANGE °F	INLETS	OUTLETS	LOCATION
MV-1	1.0 TO 100	140°F TO 120°F	2"	2"	MECHANICAL ROOM B101 ①

NOTES:
① VALVE SHALL BE OF THE HIGH FLOW / LOW FLOW TYPE.

LEGEND

- BRANCH BOTTOM CONNECTION
- BRANCH SIDE CONNECTION
- BRANCH TOP CONNECTION
- CAPPED PIPE
- CHECK VALVE
- CO — CLEANOUT, FLOOR TYPE
- WCO — WALL CLEANOUT
- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (120°F TEMPERATURE) (HW)
- 140 — DOMESTIC HOT WATER (140°F TEMPERATURE)
- DOMESTIC HOT WATER RECIRCULATING (HWR)
- FD — FLOOR DRAIN – PROVIDE WITH DEEP SEAL P-TRAP
- GATE VALVE
- WH — WALL HYDRANT – FREEZE PROOF
- HB — HOSE BIBB
- PITCH DOWN IN DIRECTION OF ARROW
- DIRECTION OF FLOW
- RELIEF VALVE
- RISER DOWN
- RISER UP
- STRAINER
- SOIL, WASTE OR SANITARY SEWER
- THERMOMETER
- UNION
- VACUUM RELIEF
- VENT PIPING
- 1 — DEMOLITION NOTE
- 1 — CONSTRUCTION NOTE
- POINT OF CONNECTION – NEW TO EXISTING
- LIMIT OF DEMOLITION
- 1 — WASTE PIPING DIAGRAM
- A — WATER PIPING DIAGRAM
- P-1 — PLUMBING FIXTURE REFERENCE
- WH-1 — WATER HEATER REFERENCE
- VP — VENT PIPE

GENERAL NOTES

1. ALL SOIL, WASTE, AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION, EXCEPT WHERE INDICATED OTHERWISE.
2. PROVIDE A COMPLETE SYSTEM OF HOT AND COLD WATER, AND WASTE AND VENT PIPING TO ALL FIXTURES WITHIN THE BUILDING TO POINTS INDICATED ON THE PLANS.
3. COORDINATE ALL OPENINGS IN SLABS, WALLS, AND FLOORS WITH ARCHITECTURAL PLANS.
4. VERIFY ALL FINISHED FLOOR ELEVATIONS, FOOTING ELEVATIONS, ETC., PRIOR TO UNDERGROUND PIPE INSTALLATION.
5. COORDINATE PLUMBING EQUIPMENT WITH ALL TRADES TO AVOID CONFLICTS.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF EXISTING PIPING DURING DEMOLITION. THESE DRAWINGS INDICATE EXISTING CONDITIONS AS COULD BEST BE DETERMINED WITH AS-BUILT DRAWINGS IN FIELD CHECKS. SHOULD DISCREPANCIES BETWEEN THESE DRAWINGS AND THE EXISTING CONDITIONS BE NOTED, THE CONTRACTING OFFICER SHALL BE NOTIFIED BEFORE WORK PROCEEDS.
2. COORDINATE WORK WITH OTHER TRADES SO AS NOT TO DISTURB NEW OR REPAIRED FINISHES.
3. ALL PATCHING OF HOLES IN FLOORS AND WALLS DUE TO REMOVAL OF PIPING, FIXTURES OR ROUGH-IN SHALL MATCH EXISTING ADJACENT CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY LOCATION, SIZE AND DEPTH OF UNDERGROUND WASTE PIPING WHERE NEW PIPING SHALL CONNECT AND ENSURE PROPER SLOPES CAN BE ACCOMPLISHED.
5. WHERE PIPING IS INDICATED TO BE INSTALLED UNDERGROUND, SAW CUT EXISTING CONCRETE FLOOR TO WIDTH SUFFICIENT FOR PIPE INSTALLATION. PROVIDE PROPER BACKFILL AND PATCH FLOOR.

SEAL
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SHEET NO.
P-001

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES TLM
DRWN JLS
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

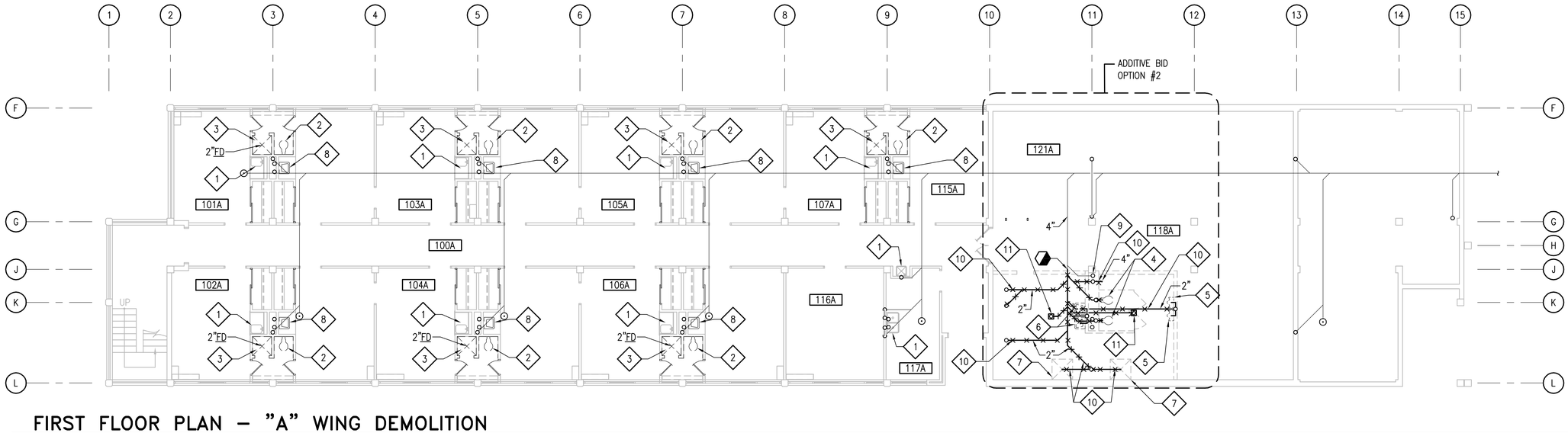
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGENDS, ABBREVIATIONS AND NOTES

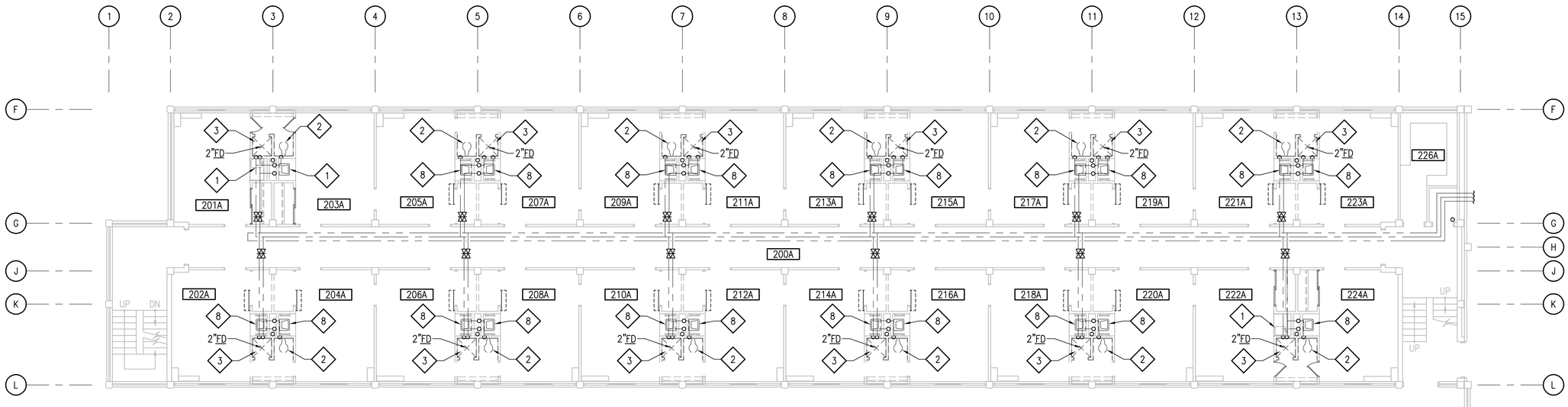
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183019

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 35 OF 106



FIRST FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



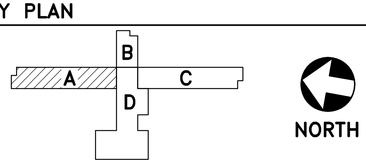
SECOND FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PLUMBING FIXTURE SHALL REMAIN.
2. REMOVE WATER CLOSET COMPLETELY AND CLEAN WAX FROM CLOSET FLANGE. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
3. REMOVE FLOOR DRAIN, SHOWER VALVE AND SUPPLY STUB-OUTS COMPLETELY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
4. REMOVE WATER CLOSET AND SUPPLY, WASTE AND VENT ROUGH-IN PIPING COMPLETELY. CAP WASTE PIPING BELOW FLOOR AND PATCH FLOOR TO MATCH SURROUNDING CONSTRUCTION.
5. REMOVE WALL MOUNTED URINAL AND SUPPLY, WASTE AND VENT ROUGH-IN PIPING COMPLETELY.
6. REMOVE WALL MOUNTED LAVATORY AND SUPPLY, WASTE AND VENT ROUGH-IN PIPING COMPLETELY.
7. REMOVE FREE-STANDING SHOWER COMPARTMENT AND SUPPLY, WASTE AND VENT ROUGH-IN COMPLETELY. CAP WASTE PIPING BELOW FLOOR AND PATCH FLOOR TO MATCH SURROUNDING CONDITIONS.
8. REMOVE LAVATORY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
9. 4" WASTE STACK SHALL REMAIN.
10. REMOVE UNDERGROUND WASTE PIPING TO POINT INDICATED.
11. REMOVE 2" FLOOR DRAIN AND PIPING COMPLETE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
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SHEET NO.
PD101

SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

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PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

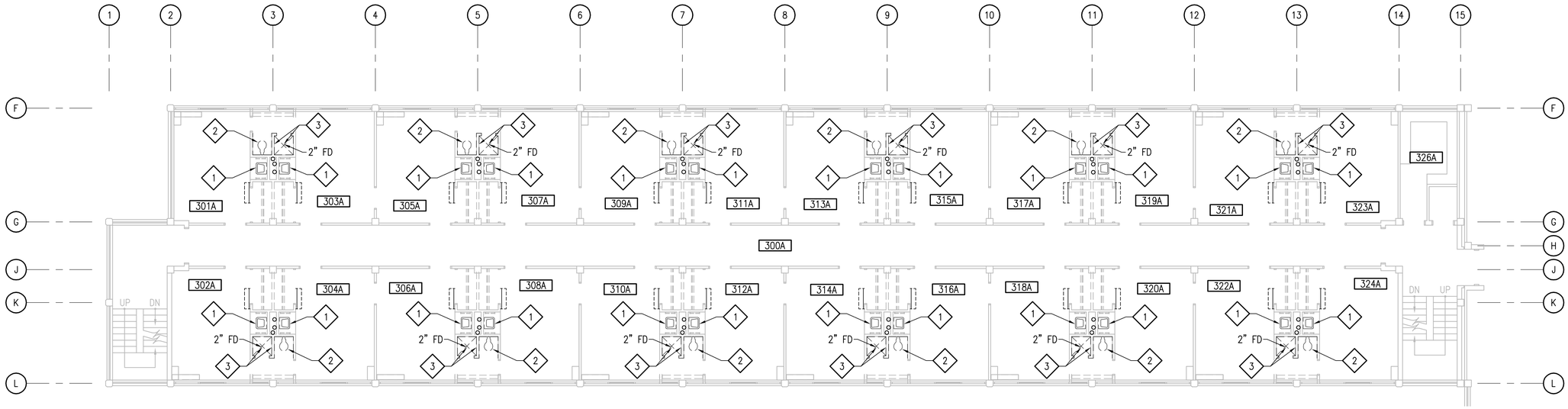
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING DEMOLITION

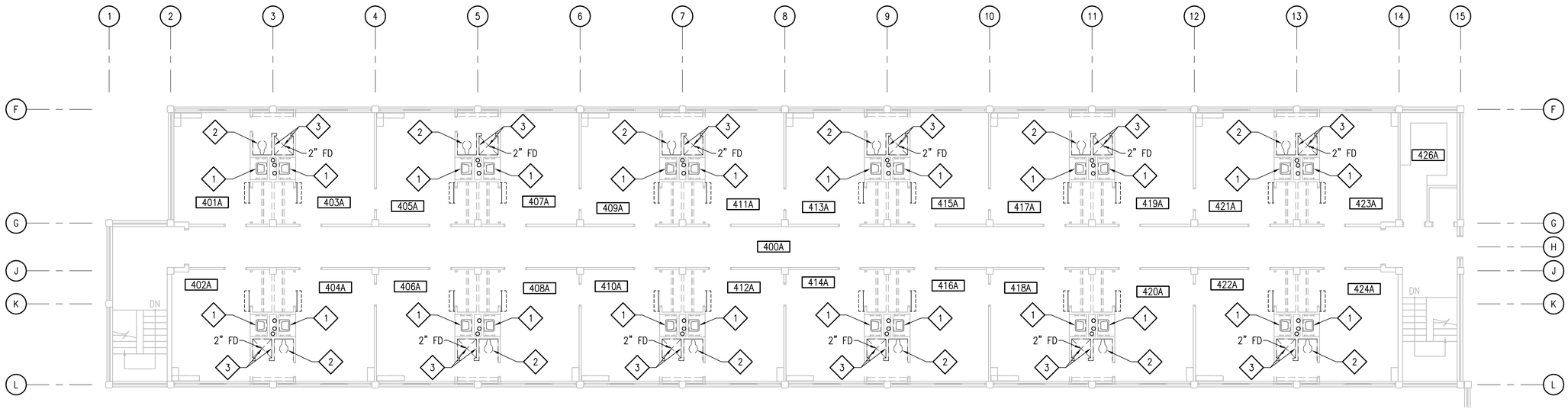
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183020

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 36 OF 106



THIRD FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



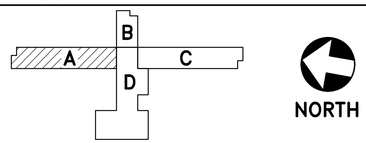
FOURTH FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE LAVATORY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
2. REMOVE WATER CLOSET COMPLETELY AND CLEAN WAX FROM CLOSET FLANGE. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
3. REMOVE FLOOR DRAIN, SHOWER VALVE AND SUPPLY STUB-OUTS COMPLETELY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

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SYMBOL	DESCRIPTION	DATE	APPROVED
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DES	TLM				
DRWN	JLS				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: _____ DATE
ROICC

SATISFACTORY TO: _____ DATE
SAFETY

SATISFACTORY TO: _____ DATE
CUSTOMER

SATISFACTORY TO: _____ DATE
FIRE INSPECTOR

SATISFACTORY TO: _____ DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: _____ DATE
PWO / OICC

SATISFACTORY TO: _____ DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

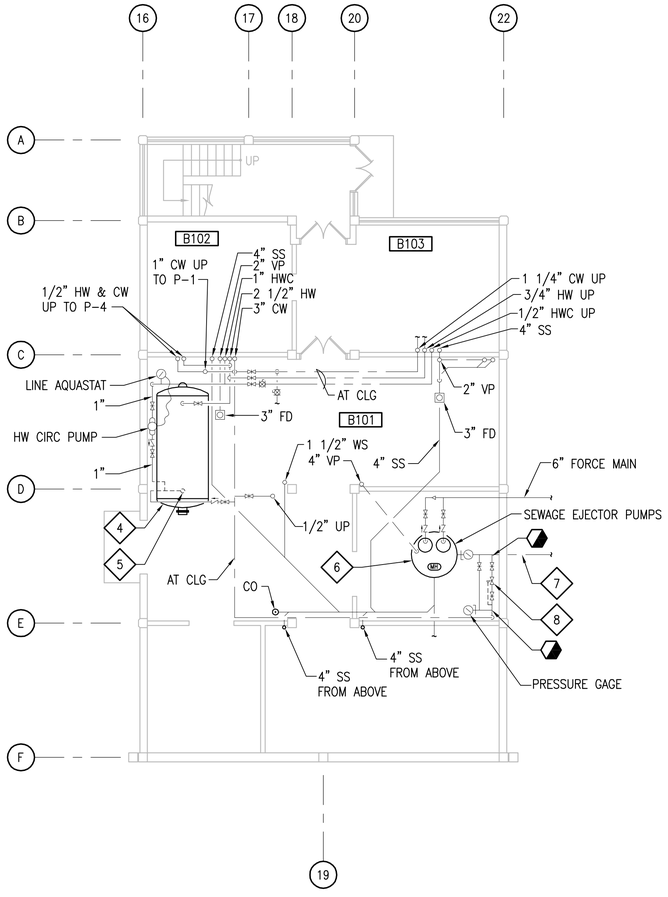
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING DEMOLITION

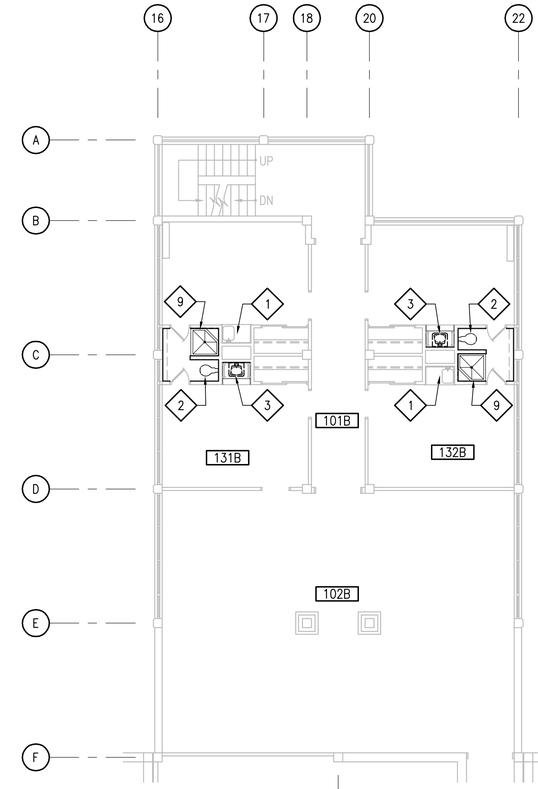
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183021

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 37 OF 106



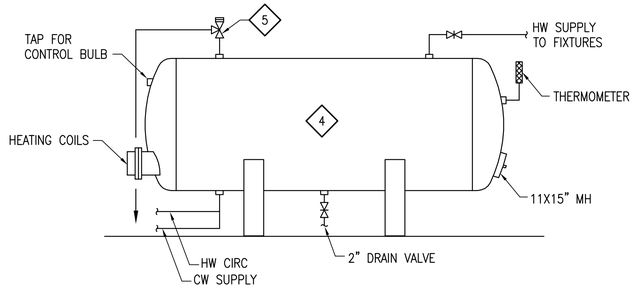
BASEMENT FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"



FIRST FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"



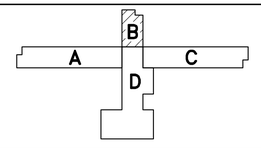
WATER HEATER DETAIL

NOT TO SCALE

KEYNOTES

1. PLUMBING FIXTURE SHALL REMAIN.
2. REMOVE WATER CLOSET COMPLETELY AND CLEAN WAX FROM CLOSET FLANGE. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB–OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
3. REMOVE LAVATORY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB–OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
4. WATER HEATER SHALL REMAIN.
5. REMOVE TEMPERATURE AND PRESSURE RELIEF VALVE.
6. SEWAGE EJECTORS AND BASIN SHALL REMAIN.
7. 3" COLD WATER SERVICE SHALL REMAIN.
8. REMOVE 3" PRESSURE REDUCING VALVE AND PIPING TO VALVES.
9. BATHTUB SHALL REMAIN. REMOVE SHOWER VALVE AND SHOWER HEAD. PROVIDE TEMPORARY PLUG ON SUPPLY STUB–OUT FOR CONNECTION OF REPLACEMENT FIXTURE.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
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SHEET NO.
PD103

SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: ROICC — DATE
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SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

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PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

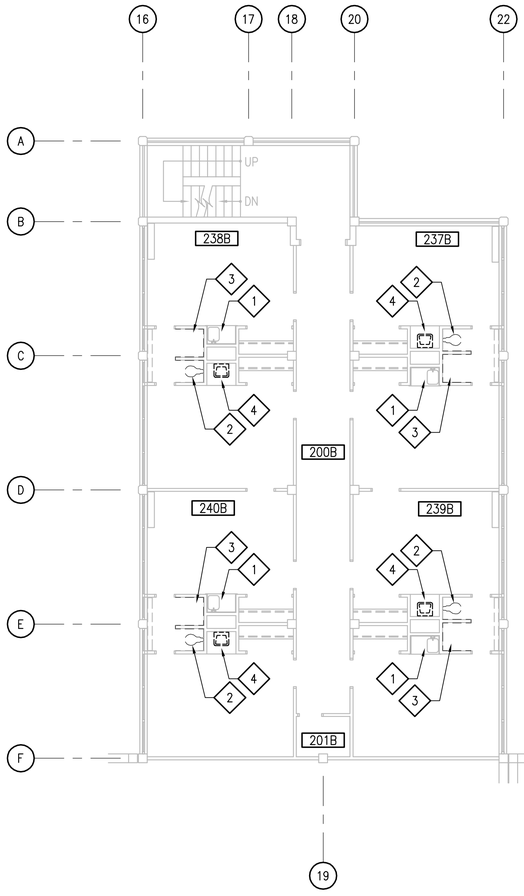
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING DEMOLITION

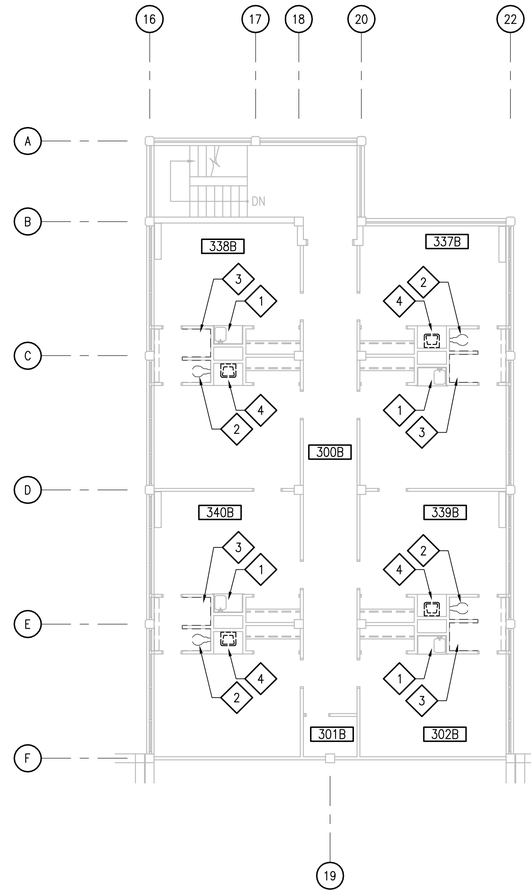
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183022

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 38 OF 106



SECOND FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"



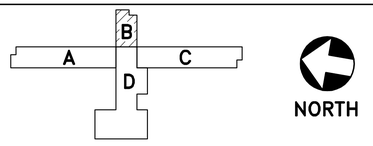
THIRD FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PLUMBING FIXTURE SHALL REMAIN.
2. REMOVE WATER CLOSET COMPLETELY AND CLEAN WAX FROM CLOSET FLANGE. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
3. BATHTUB SHALL REMAIN. REMOVE SHOWER VALVE AND SHOWER HEAD.
4. REMOVE LAVATORY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

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SHEET NO.
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SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

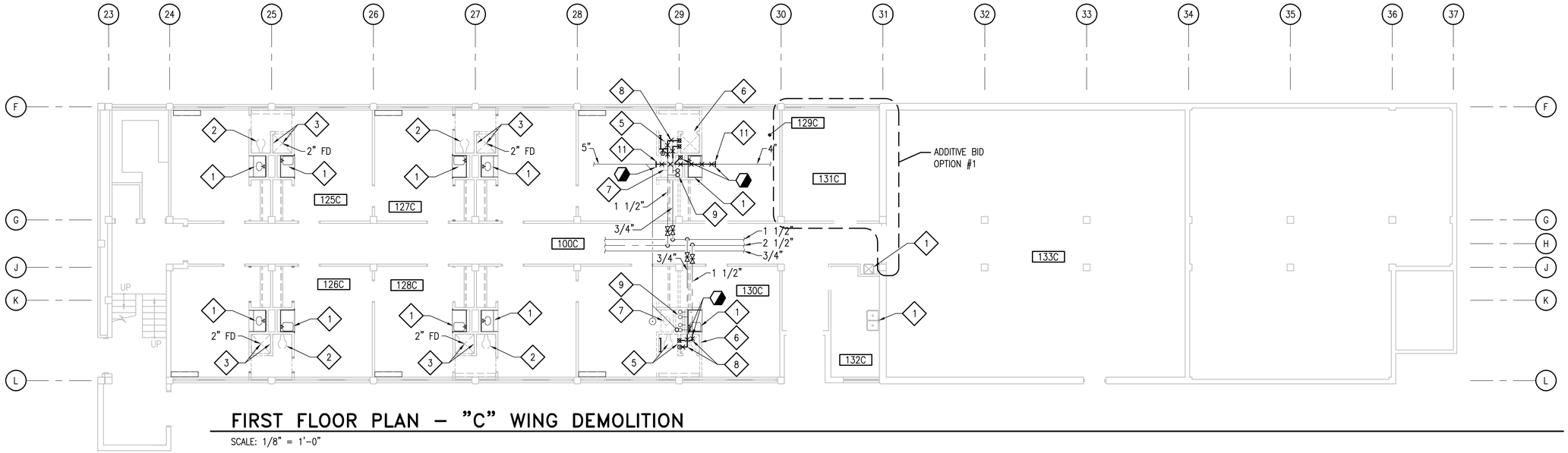
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING DEMOLITION

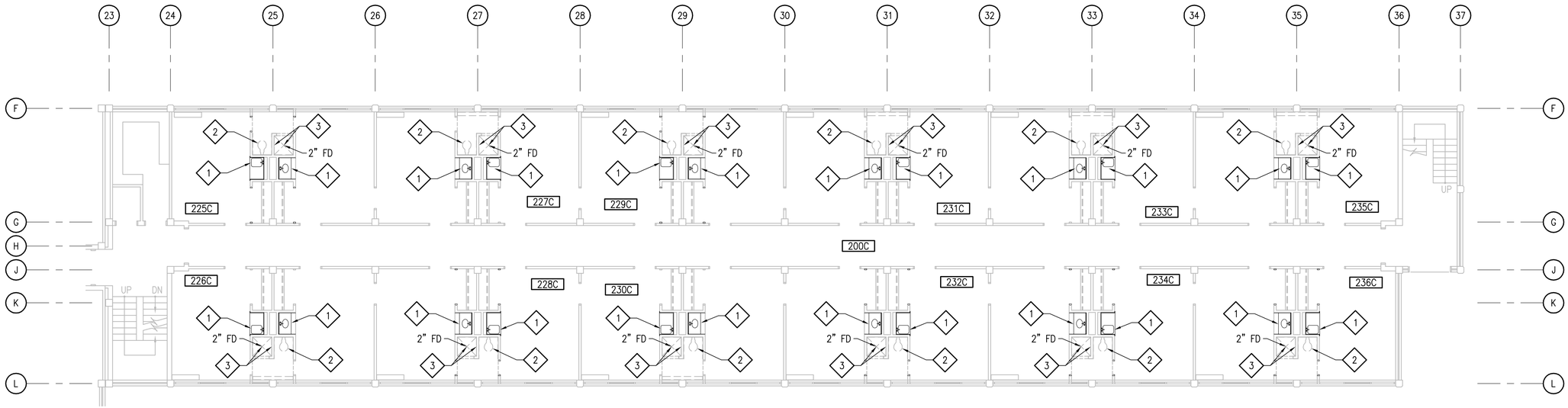
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183023

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 39 OF 106



FIRST FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'–0"



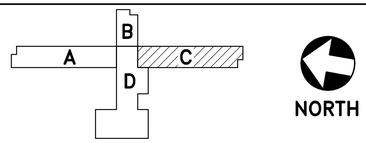
SECOND FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'–0"

KEYNOTES

1. PLUMBING FIXTURE SHALL REMAIN.
2. REMOVE WATER CLOSET COMPLETELY AND CLEAN WAX FROM CLOSET FLANGE. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB–OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
3. REMOVE FLOOR DRAIN, SHOWER VALVE AND SUPPLY STUB–OUTS COMPLETELY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB–OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
4. REMOVE LAVATORY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB–OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
5. REMOVE WATER CLOSET AND ROUGH–IN PIPING COMPLETELY
6. REMOVE SHOWER AND ROUGH–IN PIPING COMPLETELY.
7. REMOVE LAVATORY AND ROUGH–IN PIPING COMPLETELY.
8. REMOVE HOT AND COLD WATER PIPING TO FIRST FLOOR PLUMBING FIXTURES. CAP PIPING PERMANENTLY AT POINT OF DEMOLITION SYMBOL.
9. HOT AND COLD WATER RISERS TO FIXTURES ON UPPER FLOORS SHALL REMAIN.
10. REMOVE 4" WASTE STACK FROM THRU FLOOR PENETRATION UP TO SECOND FLOOR FIXTURES. CAP UNDERGROUND PIPING PERMANENTLY. SEE SHEET PL106 FOR OFFSETTING TO CHASE.
11. REMOVE UNDERGROUND SANITARY SEWER PIPING TO POINTS INDICATED.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

SEAL

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SHEET NO.
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SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

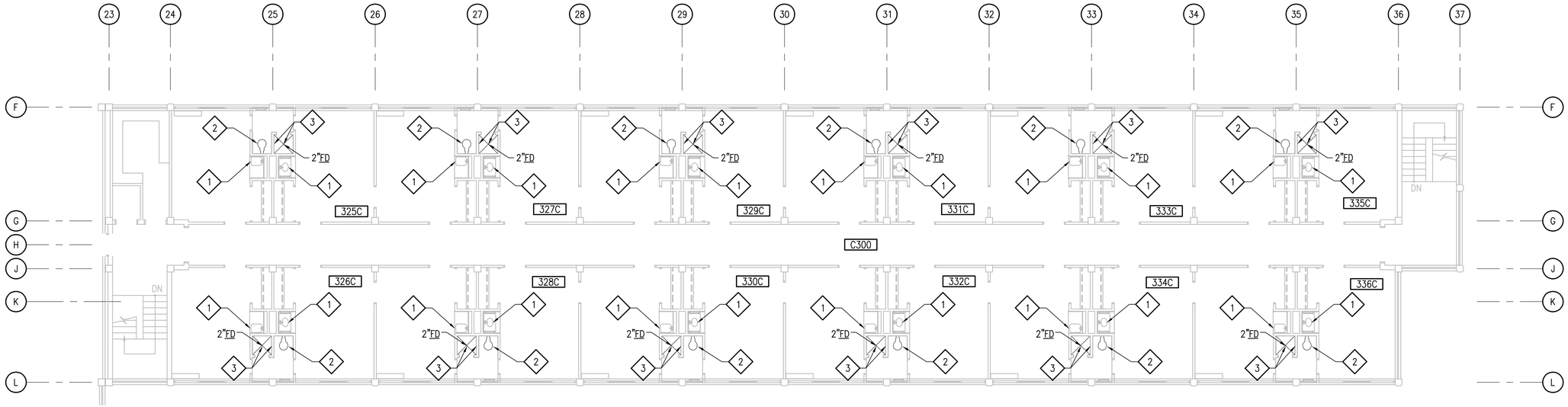
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING DEMOLITION

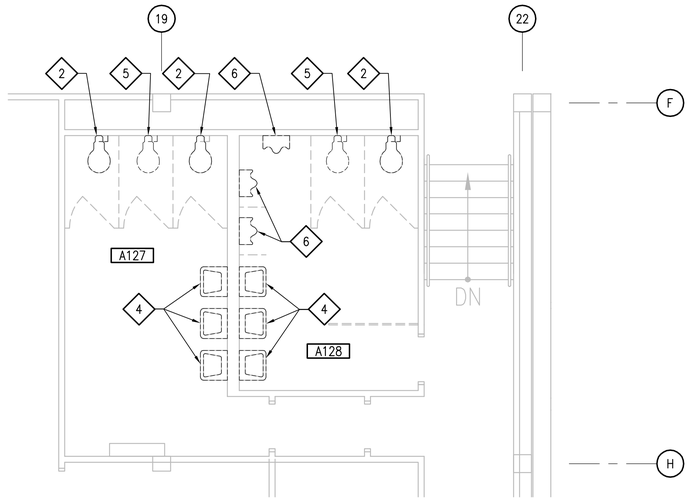
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183024

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 40 OF 106



THIRD FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"



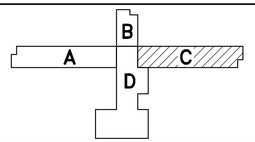
TOILET PLAN "D" WING – DEMOLITION (ADDITIVE BID OPTION #4)

SCALE: 1/4" = 1'-0"

KEYNOTES

1. PLUMBING FIXTURE SHALL REMAIN.
2. REMOVE WATER CLOSET COMPLETELY AND CLEAN WAX FROM CLOSET FLANGE. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
3. REMOVE FLOOR DRAIN, SHOWER VALVE AND SUPPLY STUB-OUTS COMPLETELY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
4. REMOVE LAVATORY. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.
5. REMOVE WATER CLOSET COMPLETELY. CAP WATER PIPING IN WALL AND WASTE PIPING BELOW FLOOR.
6. REMOVE WALL MOUNTED URINAL. PROVIDE TEMPORARY PLUG ON WASTE AND CAP SUPPLY STUB-OUT FOR CONNECTION OF REPLACEMENT FIXTURE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

1/4" = 1'-0" 0 1' 5' 10' 15'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK·NEXSEN
Architecture & Engineering

SHEET NO. PD106

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES TLM
DRWN JLS
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER — DATE
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

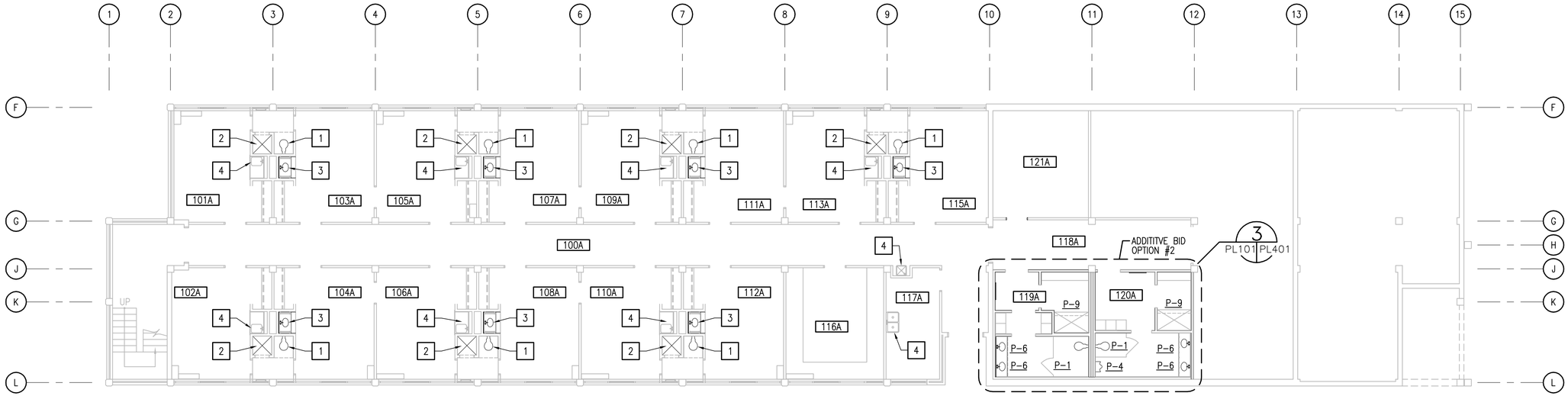
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING DEMOLITION

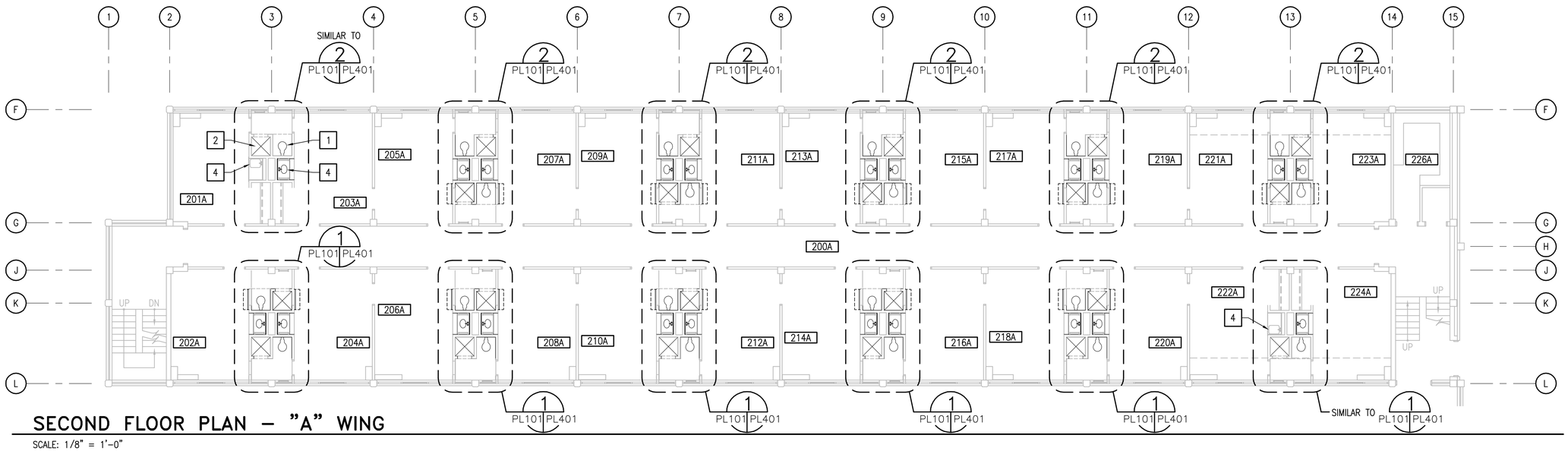
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183025

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 41 OF 106



FIRST FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"



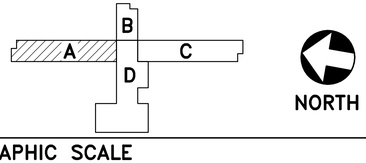
SECOND FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P-3. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB-OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH-IN.
2. PROVIDE ACRYLIC SHOWER MODULE P-8, FLOOR DRAIN AND SHOWER VALVE. CONNECT TO EXISTING SUPPLY AND WASTE PIPING.
3. PROVIDE COUNTER MOUNTED LAVATORY, P-5. CONNECT TO EXISTING SUPPLY AND WASTE PIPING IN WALL.
4. EXISTING PLUMBING FIXTURE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
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SHEET NO.
PL101

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES	TLM				
DRWN	JLS				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

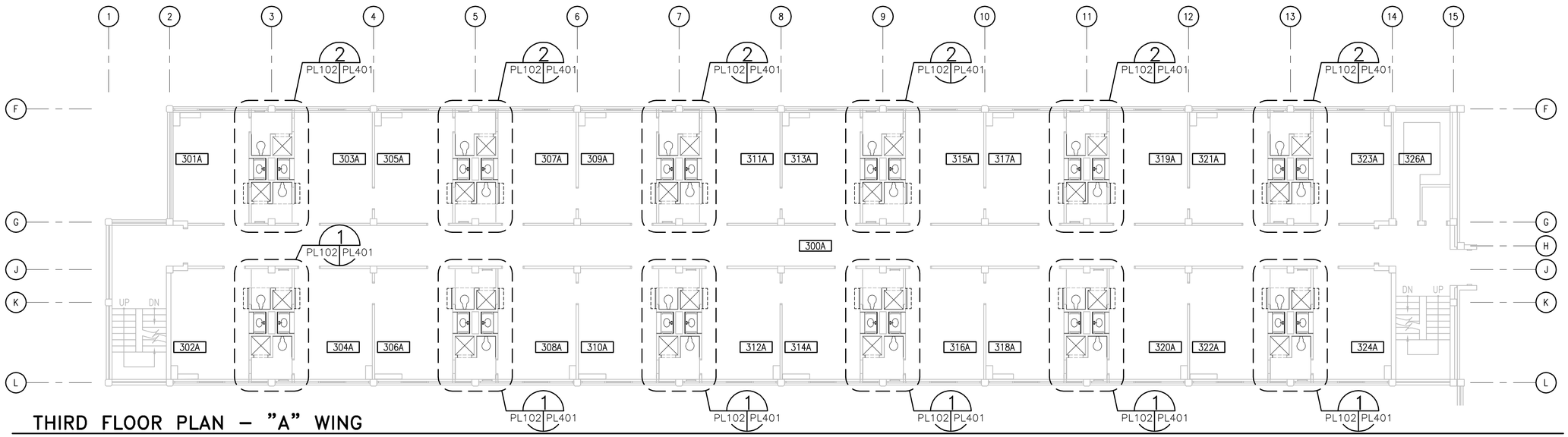
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING

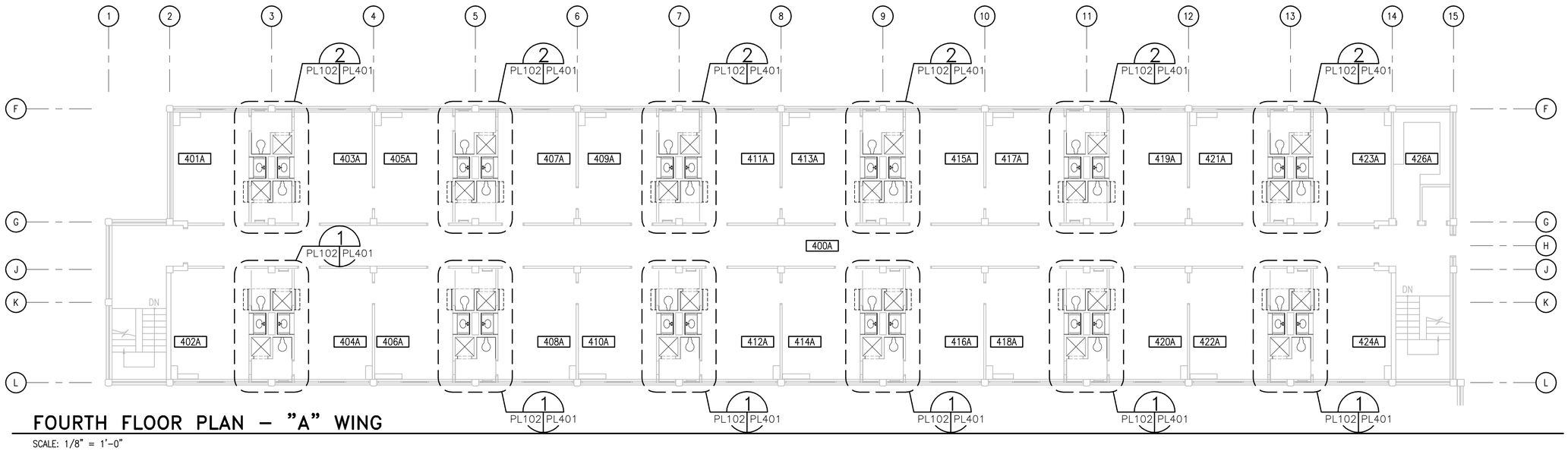
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183026

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 42 OF 106



THIRD FLOOR PLAN – "A" WING

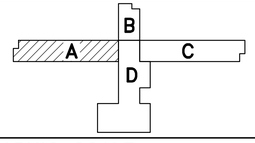
SCALE: 1/8" = 1'-0"



FOURTH FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

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SHEET NO.
PL102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES	TLM				
DRWN	JLS				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

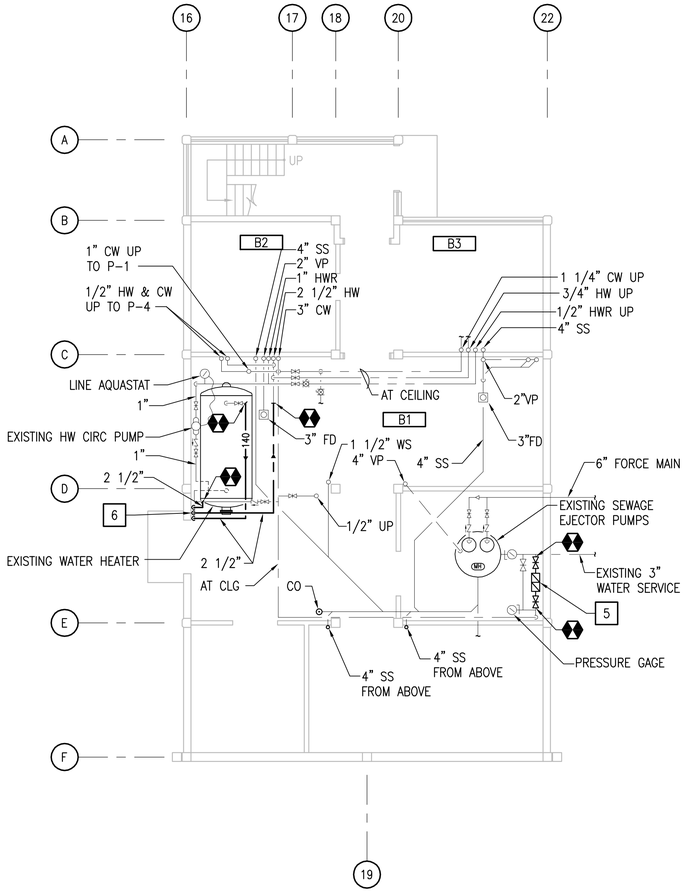
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING

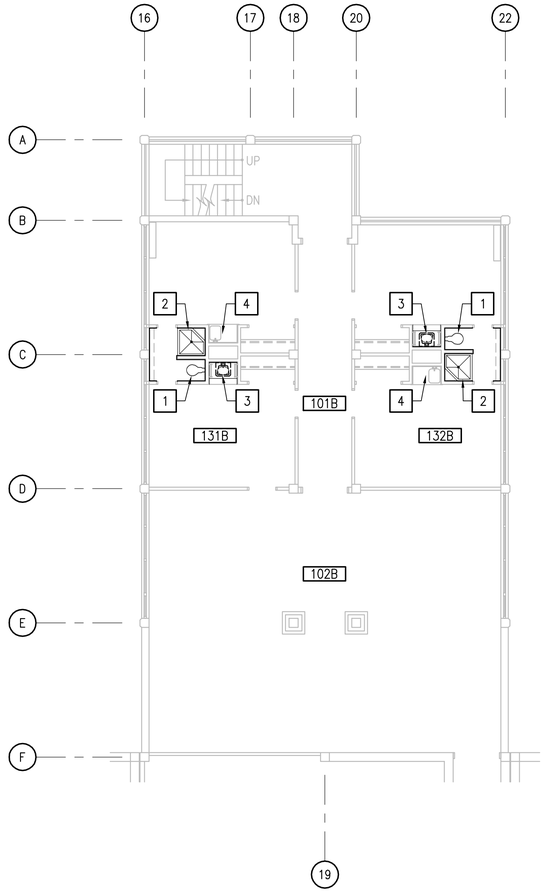
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183027

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 43 OF 106



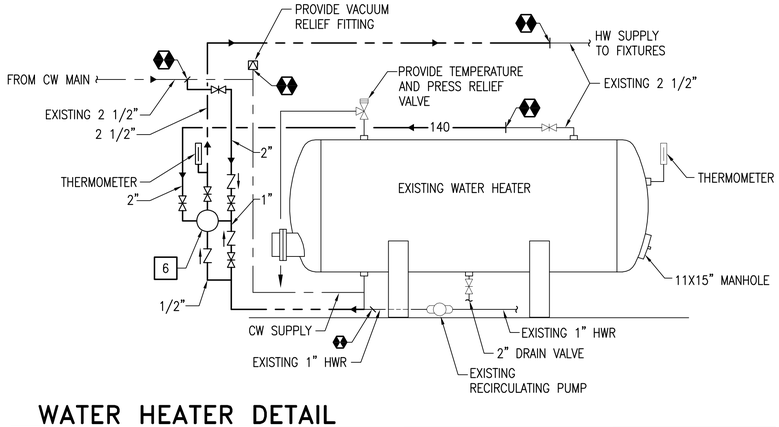
BASEMENT FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"



FIRST FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"



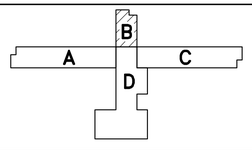
WATER HEATER DETAIL

NOT TO SCALE

KEYNOTES

1. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P–3. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB–OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH–IN.
2. PROVIDE SHOWER VALVE AND HEAD AS SPECIFIED FOR FIXTURE P–8. CONNECT TO EXISTING SUPPLY PIPING.
3. PROVIDE COUNTER MOUNTED LAVATORY, P–5. CONNECT TO EXISTING SUPPLY AND WASTE PIPING IN WALL.
4. EXISTING PLUMBING FIXTURE.
5. PROVIDE 3" REDUCED PRESSURE BACKFLOW PREVENTER. CONNECT TO EXISTING 3" PIPING AS INDICATED.
6. PROVIDE MIXING VALVE MV–1. MOUNT ON WALL AT 5'–0" ABOVE FLOOR.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
PL103

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

SEAL
COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES TLM
DRWN JLS
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

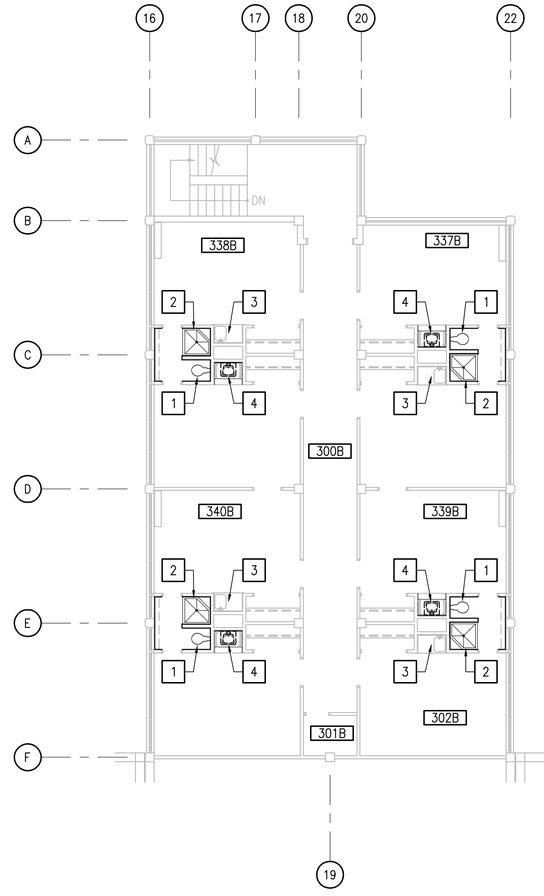
BASEMENT AND FIRST FLOOR PLAN – "B" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183028

SCALE: NOTED SPEC. 21–02–1015 SHEET 44 OF 106

SECOND FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"



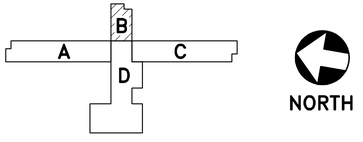
THIRD FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"

KEYNOTES

1. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P–3. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB–OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH–IN.
2. PROVIDE SHOWER VALVE AND HEAD AS SPECIFIED FOR FIXTURE P–8. CONNECT TO EXISTING SUPPLY PIPING.
3. EXISTING PLUMBING FIXTURE.
4. PROVIDE COUNTER MOUNTED LAVATORY, P–5. CONNECT TO EXISTING SUPPLY AND WASTE PIPING IN WALL.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

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SHEET NO.
PL104

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

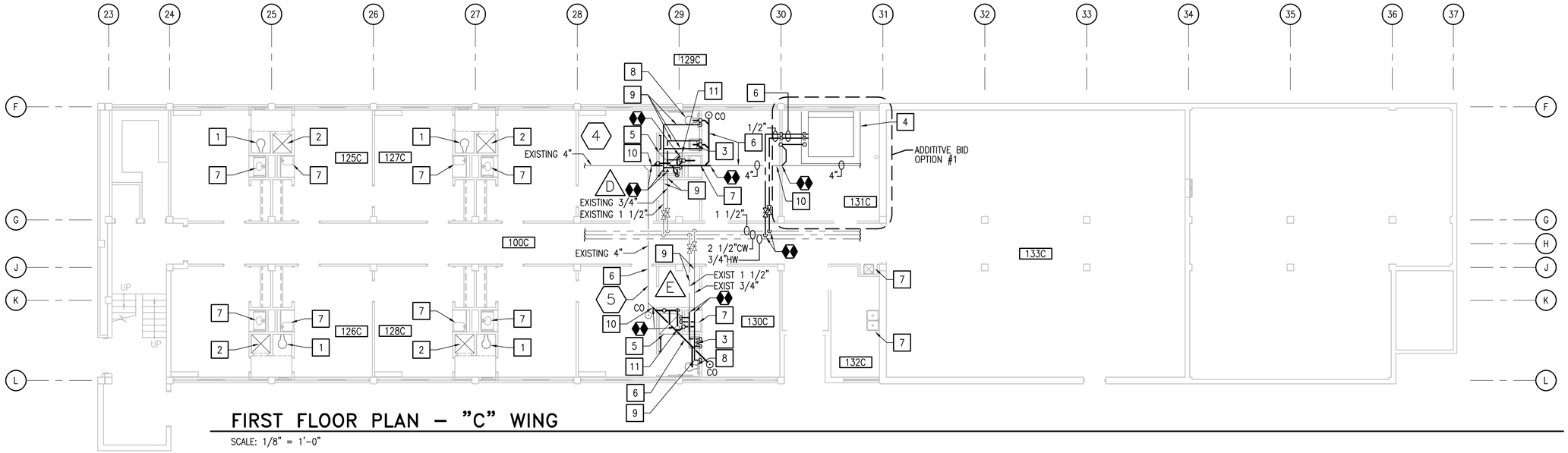
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING

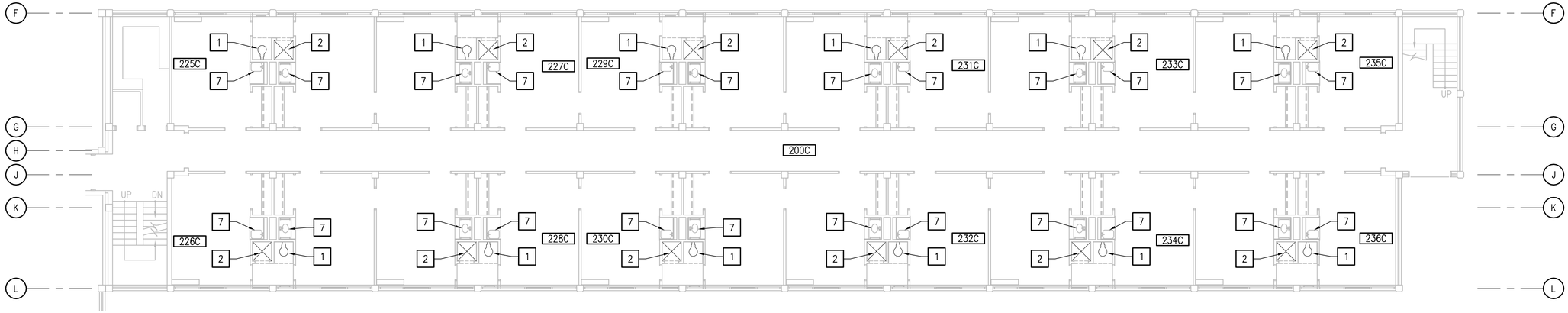
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183029

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 45 OF 106



FIRST FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"



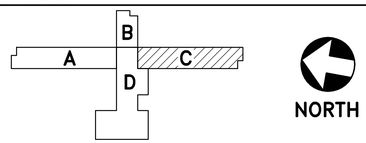
SECOND FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P-3. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB-OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH-IN.
2. PROVIDE ACRYLIC SHOWER MODULE P-8, FLOOR DRAIN AND SHOWER VALVE. CONNECT TO EXISTING SUPPLY AND WASTE PIPING.
3. PROVIDE WALL MOUNTED LAVATORY P-7 AND WATER AND WASTE ROUGH-IN PIPING.
4. PROVIDE ROUGH-IN AND FINAL CONNECTION TO THERAPEUTIC TUB (P-12).
5. PROVIDE SHOWER MODULE AND VALVE P-11 AND WATER AND WASTE ROUGH-IN PIPING.
6. RUN PIPING BELOW FLOOR.
7. EXISTING PLUMBING FIXTURE.
8. PROVIDE FLOOR MOUNTED FLUSH TANK WATER CLOSET P-10 AND WATER AND WASTE ROUGH-IN PIPING.
9. PIPING RUN ABOVE CEILING.
10. CONTRACTOR VERIFY LOCATION AND INVERT OF WASTE PIPE PRIOR TO ROUGHING-IN REPLACEMENT FIXTURES.
11. EXISTING 4" WASTE STACK.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
PL105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

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SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER — DATE
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SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

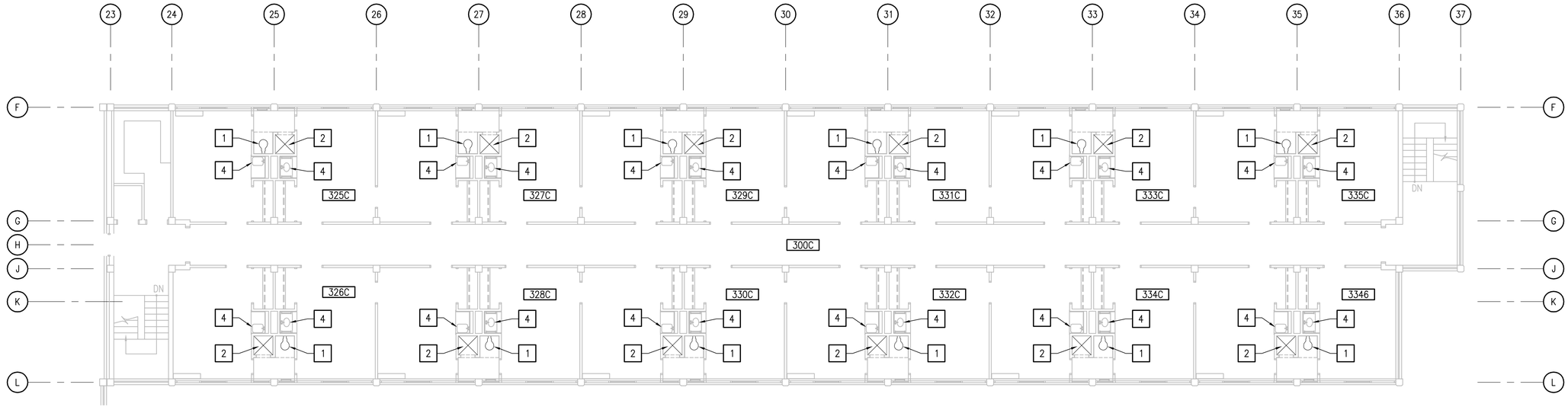
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING

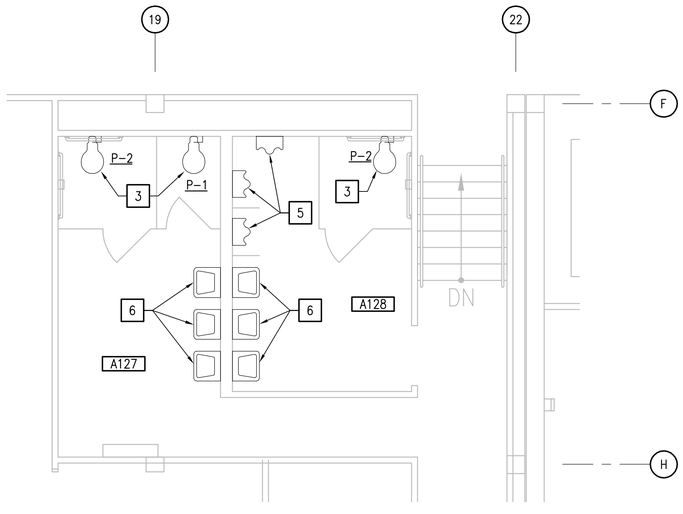
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183030

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 46 OF 106



THIRD FLOOR PLAN – "C" WING

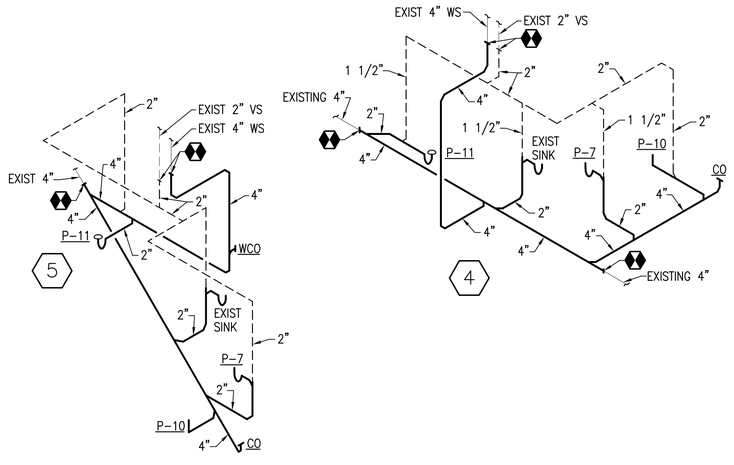
SCALE: 1/8" = 1'-0"



TOILET PLAN "D" WING

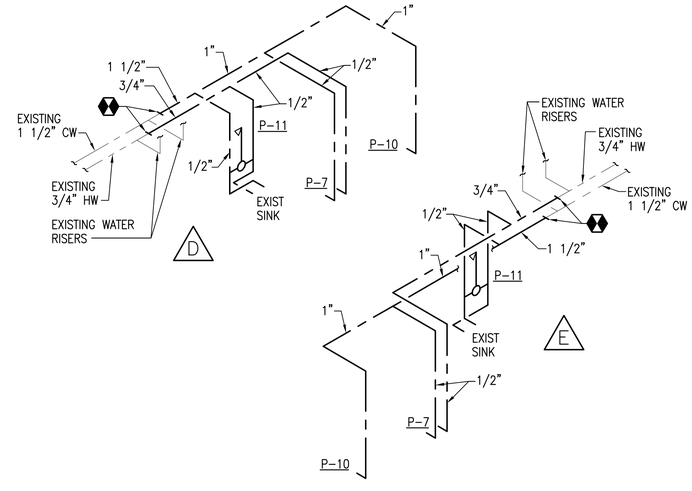
(ADDITIVE BID OPTION #4)

SCALE: 1/4" = 1'-0"



WASTE RISER DIAGRAM

NO SCALE



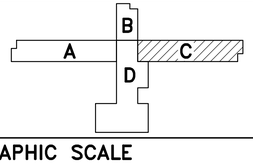
WATER RISER DIAGRAM

NO SCALE

KEYNOTES

1. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P–3. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB–OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH–IN.
2. PROVIDE ACRYLIC SHOWER MODULE P–8, FLOOR DRAIN AND SHOWER VALVE. CONNECT TO EXISTING SUPPLY AND WASTE PIPING.
3. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB–OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH–IN.
4. EXISTING PLUMBING FIXTURE.
5. PROVIDE WALL MOUNTED URINAL P–4 OF SIZE AND TYPE TO INSTALL ON EXISTING CARRIER FITTING. MAKE FINAL CONNECTION TO WATER AND WASTE ROUGH–IN AND MODIFY EXISTING PIPING AS NECESSARY FOR PROPER INSTALLATION.
6. PROVIDE WALL MOUNTED LAVATORY P–7 OF SIZE AND TYPE TO INSTALL ON EXISTING CARRIER FITTING. MAKE FINAL CONNECTION TO WATER AND WASTE ROUGH–IN AND MODIFY EXISTING PIPING AS NECESSARY FOR PROPER INSTALLATION.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
PL106

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES TLM
DRWN JLS
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

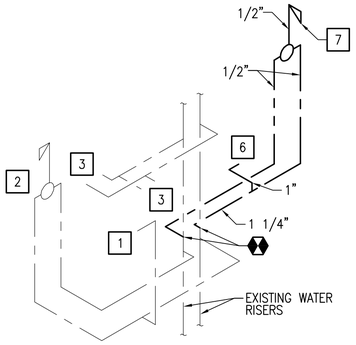
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

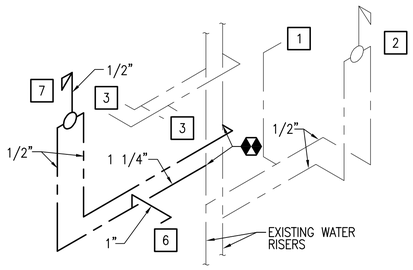
THIRD FLOOR PLAN – "C" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183031

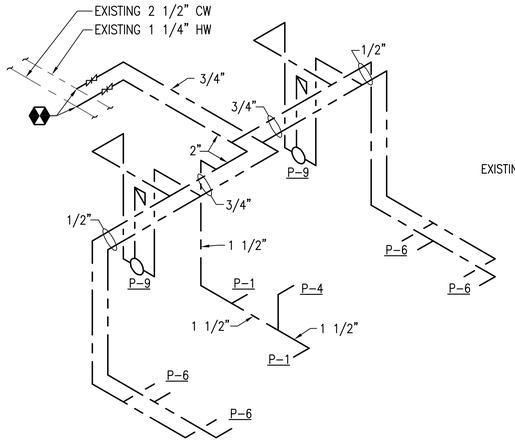
SCALE: NOTED | SPEC. 21–02–1015 | SHEET 47 OF 106



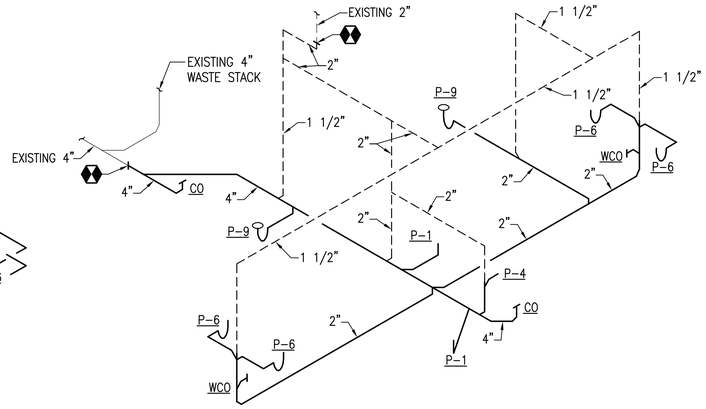
A WATER RISER DIAGRAM
NO SCALE



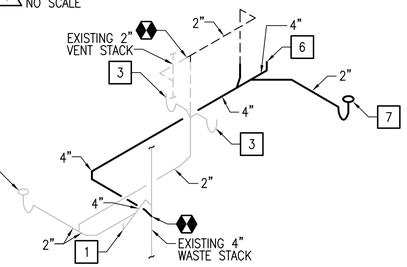
B WATER RISER DIAGRAM
NO SCALE



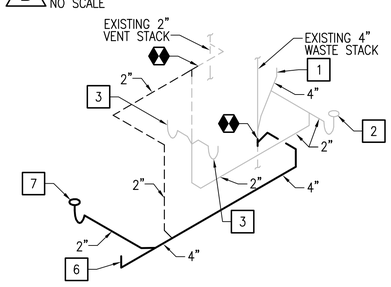
C WATER RISER DIAGRAM
NO SCALE



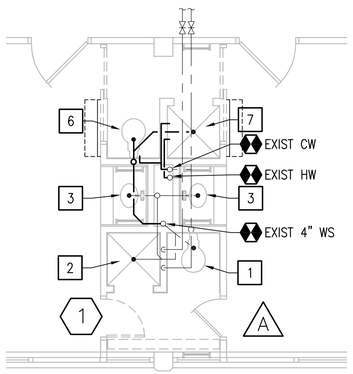
3 WASTE RISER DIAGRAM
NO SCALE



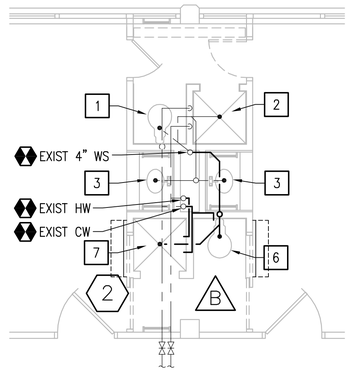
1 WASTE RISER DIAGRAM
NO SCALE



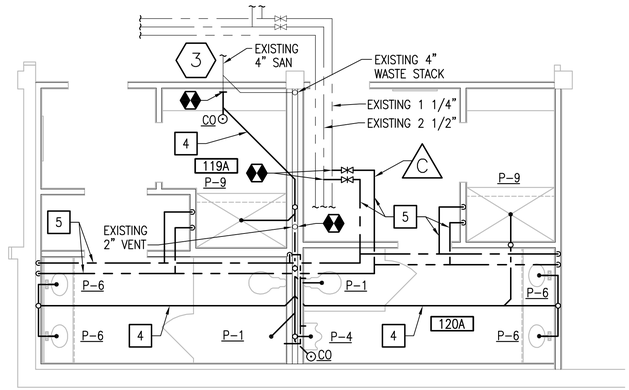
2 WASTE RISER DIAGRAM
NO SCALE



1 ENLARGED BATHROOM PLAN
PL101,PL102,PL401 SCALE: 1/4" = 1'-0"



2 ENLARGED BATHROOM PLAN
PL101,PL102,PL401 SCALE: 1/4" = 1'-0"

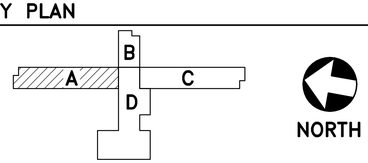


3 ENLARGED CHANGING ROOM PLAN (ADDITIVE BID OPTION #2)
PL102,PL401 SCALE: 1/4" = 1'-0"

KEYNOTES

1. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P-3. PROVIDE WAX RING AND CONNECT TO EXISTING CLOSET FLANGE. PROVIDE SUPPLY FITTING AND CONNECT TO EXISTING STUB-OUT. MODIFY EXISTING WATER PIPING AS NECESSARY FOR PROPER ROUGH-IN.
2. PROVIDE ACRYLIC SHOWER MODULE P-8, FLOOR DRAIN AND SHOWER VALVE. CONNECT TO EXISTING SUPPLY AND WASTE PIPING.
3. PROVIDE COUNTER MOUNTED LAVATORY, P-5. CONNECT TO EXISTING SUPPLY AND WASTE PIPING IN WALL.
4. PIPING RUN BELOW FLOOR.
5. PIPING RUN ABOVE CEILING.
6. PROVIDE FLOOR MOUNTED FLOOR OUTLET WATER CLOSET P-3, AND WATER AND WASTE ROUGH-IN PIPING.
7. PROVIDE ACRYLIC SHOWER MODULE P-8, FLOOR DRAIN AND SHOWER VALVE. PROVIDE WATER AND WASTE ROUGH-IN PIPING.

KEY PLAN



GRAPHIC SCALE

1/4" = 1'-0"

0 1' 5' 10' 15'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
PL401

SATISFACTORY TO:	DATE
ROICC	
SAFETY	
CUSTOMER	
FIRE INSPECTOR	

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

DES TLM
DRWN CLC
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO:	DATE
DIRECTOR ENGINEERING DIV.	
PWO / OICC	
FACILITIES MAINTENANCE OFFICER	

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED PLANS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183032

SCALE: NOTED SPEC. 21-02-1015 SHEET 48 OF 106

GENERAL

GENERAL

1	DEMOLITION NOTE IDENTIFICATION
1	CONSTRUCTION NOTE IDENTIFICATION
1	REMARKS NOTE
	INDICATES EXISTING ITEM
	INDICATES ITEM TO BE PROVIDED
	INDICATES ITEM TO BE REMOVED
	REMOVE TO THIS POINT
	CONNECT NEW TO EXISTING
XXX	ROOM NUMBER IDENTIFICATION
AFF	ABOVE FINISH FLOOR
UON	UNLESS OTHERWISE NOTED
NIC	NOT IN CONTRACT
DWG	DRAWING
TYP	TYPICAL
MISC	MISCELLANEOUS
AD	ACCESS DOOR

DUCTWORK

	CEILING EXHAUST REGISTER
	FLEXIBLE DUCT CONNECTION
	MITERED ELBOW WITH TURNING VANES
	RADIUS ELBOW
	RETURN/EXHAUST DUCT TURNING UP
	RETURN/EXHAUST DUCT TURNING DOWN
10X10	SQUARE OR RECTANGULAR DUCTWORK
	VOLUME DAMPER
	RETURN, EXHAUST OR TRANSFER AIR FLOW
T	ROOM THERMOSTAT

VALVES AND ACCESSORIES

	BALL VALVE
	BOTTOM CONNECTION
	BUTTERFLY VALVE
	CAPPED PIPE
	CHECK VALVE
CO	CLEANOUT
	CONCENTRIC REDUCER
	DIRECTION OF FLOW
	ECCENTRIC REDUCER
	FLANGED CONNECTION (THIS NOT A UNION)
	FLEXIBLE CONNECTION
	GATE VALVE
	GLOBE VALVE
	MANUAL AIR VENT
	METERED BALANCING VALVE, WITH PRESSURE TAPS
	NEEDLE VALVE
PT	PRESSURE/TEMPERATURE TEST PLUG
	PLUG VALVE
	PIPE TURNING UP
	PIPE TURNING DOWN
	PITCH DOWN IN DIRECTION OF ARROW
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	PRESSURE GAUGE WITH GAUGE COCK
	STRAINER
	STRAINER WITH BLOW-OFF VALVE
	SWING JOINT
	THREE-WAY CONTROL VALVE COORDINATE WITH CONTROLS
	THERMOMETER
	TOP CONNECTION
	UNION

PIPING

	DIRECTION OF FLOW
D	CONDENSATE DRAIN LINE
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
DTS	DUAL TEMPERATURE SUPPLY
DTR	DUAL TEMPERATURE RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID

EQUIPMENT

EF-1	EXHAUST FAN
FCU-1	FAN COIL UNIT
EG-1 / (CFM)	EXHAUST GRILLE DESIGNATION WITH CFM INDICATED
HP-1	HEAT PUMP
TG-1	TRANSFER GRILL
WFR-1	WALL FINNED RADIATION

GENERAL

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE HVAC SYSTEM TO INCLUDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
2. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, STATE AND FEDERAL AUTHORITIES, ALSO THE LATEST EDITION OF THE (STATE) BUILDING CODES, APPLICABLE ASHRAE, NFPA, AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK. WHERE APPLICABLE, MATERIALS AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF ARI, ASME, UL, AND ASTM. THE CONTRACTOR SHALL MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE GOVERNMENT UNLESS OTHERWISE WAIVED IN WRITING.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS, AND SERVICES RELATED TO INSTALLATION OF THE WORK.
4. PRIOR TO SUBMITTING A PROPOSAL THE CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS TO INSURE THAT THE WORK REPRESENTED ON THE DRAWINGS CAN BE INSTALLED AS INDICATED.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICT THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
6. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
7. RUN ALL HORIZONTAL DUCTWORK ABOVE CEILING UNLESS OTHERWISE NOTED.
8. ALL EQUIPMENT REMOVED FROM THE BUILDING, DURING DEMOLITION, SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL. CARE SHOULD BE TAKEN IN REMOVAL OF ITEMS TO MINIMIZE DAMAGE. ANY ITEM WHICH IS NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
9. EXISTING DUCT, PIPE AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT, PIPE AND EQUIPMENT SIZES AND THEIR RESPECTIVE LOCATIONS BEFORE PROCEEDING WITH ANY ASSOCIATED WORK.
10. CUT OPENINGS, AS REQUIRED, IN THE EXISTING CONSTRUCTION FOR THE INSTALLATION OF PIPING, DUCTWORK, AND EQUIPMENT. PATCH AND REPAIR TO MATCH THE EXISTING ADJACENT CONSTRUCTION.
11. MAKE DUCT PENETRATIONS OF ALL WALLS WITH SHEET METAL DUCTS. FLEXIBLE DUCT PENETRATIONS OF WALLS ARE NOT ACCEPTABLE.
12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES. FINISH AND COLOR TO BE SELECTED BY ARCHITECT.
13. SIZES GIVEN FOR DUCTWORK ON PLANS ARE INSIDE CLEAR DIMENSIONS.
14. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES.
15. BALANCE AIR SYSTEM TO PRODUCE CFM'S INDICATED ON DRAWINGS. SUBMIT WRITTEN REPORT TO ENGINEER.
16. PROVIDE ADJUSTING HANDLES FOR DUCT MOUNTED VOLUME DAMPERS WITH RODS OF SUFFICIENT STAND-OFF LENGTH, SUCH THAT THE HANDLE DOES NOT COMPRESS THE INSULATION, OR DAMAGE THE INSULATION WHEN ADJUSTED.
17. DO NOT INSTALL DUCTWORK OVER ANY ELECTRICAL SWITCHGEAR.
18. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PIPING SHALL NOT INTERFERE WITH FILTER PULL.
19. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN/PUBLISHED RECOMMENDATIONS.
20. MECHANICAL CONTRACTOR SHALL PROVIDE AUTOMATIC CONTROL DEVICES, SUCH AS TEMPERATURE SENSORS, RELAYS, PRESSURE SWITCHES WHICH ARE ASSOCIATED WITH MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL WIRING FROM STARTER TO THE CONTROL DEVICE. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM POWER SOURCE TO DISCONNECT SWITCH, FROM DISCONNECT SWITCH TO STARTER, AND FROM STARTER TO THE EQUIPMENT.
21. ALL CONTROL WIRING EXCEPT IN EQUIPMENT ROOMS SHALL BE RUN CONCEALED. WIRING IN WALLS SHALL BE IN CONDUIT. ALL WIRING SHALL BE PLENUM RATED. CONTROL WIRING IN EXPOSED AREAS SHALL BE BUNDLED AND SECURED OR RUN IN CONDUIT. NO WIRING SHALL BE SURFACE MOUNTED IN FINISHED SPACES. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
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PROFESSIONAL ENGINEER

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Architecture & Engineering

SHEET NO.
M-001

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER — DATE
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN EVA
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

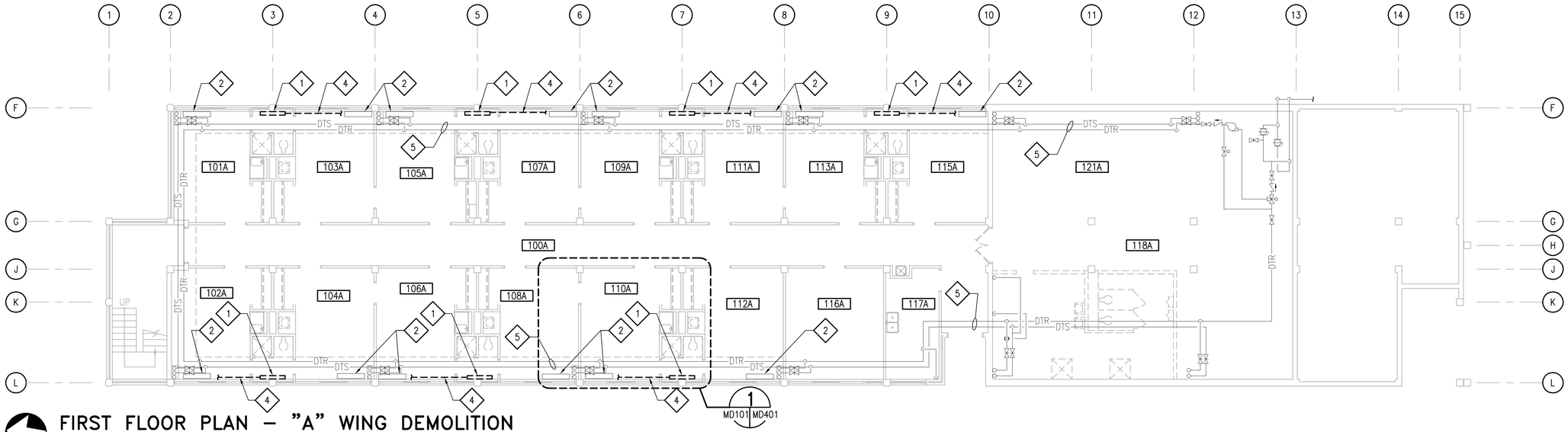
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGEND & GENERAL NOTES

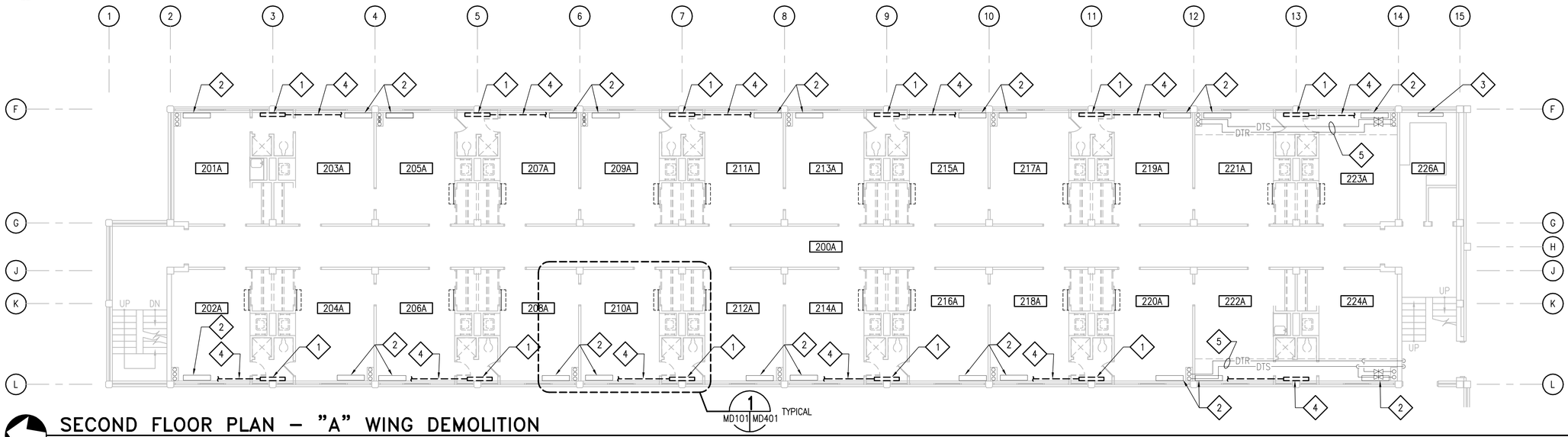
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183033

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 49 OF 106



FIRST FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



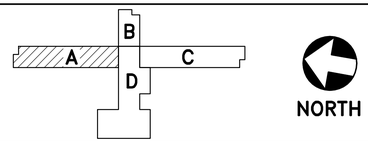
SECOND FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE CONVECTOR, COVER, PIPING, HANGERS, AND APPURTENANCES COMPLETE. SEE TYPICAL MODULE PLAN A8 SHEET MD401.
2. EXISTING FAN COIL UNIT TO REMAIN.
3. EXISTING CONVECTOR TO REMAIN.
4. REMOVE 1/2" HWS & HWR PIPING. SEE TYPICAL MODULE PLAN SHEET MD401.
5. EXISTING DTS & DTR PIPING TO REMAIN.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MD101

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

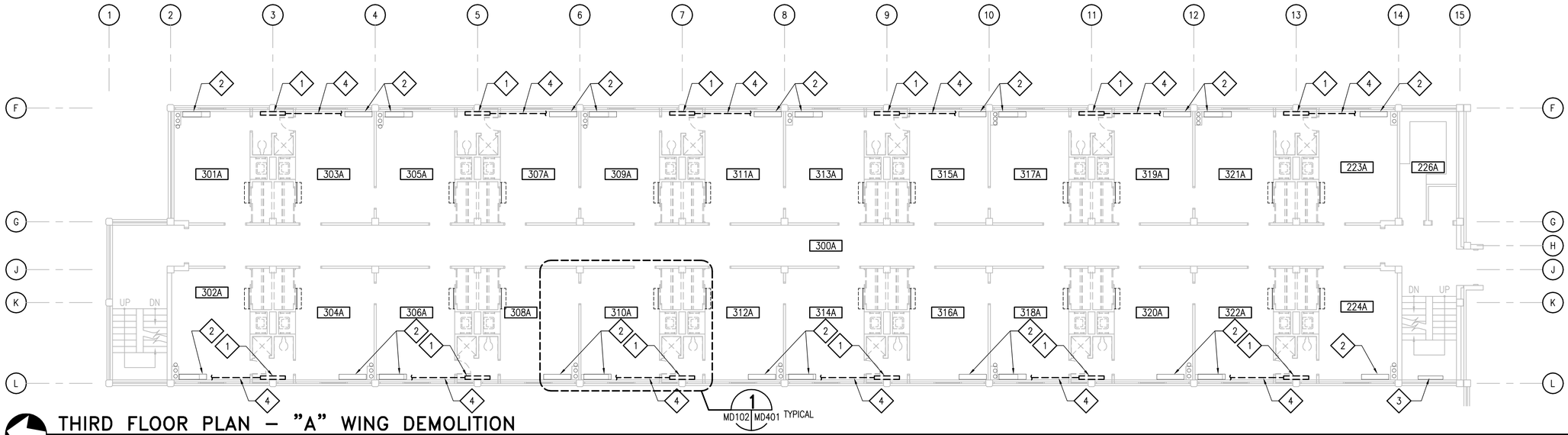
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING DEMOLITION

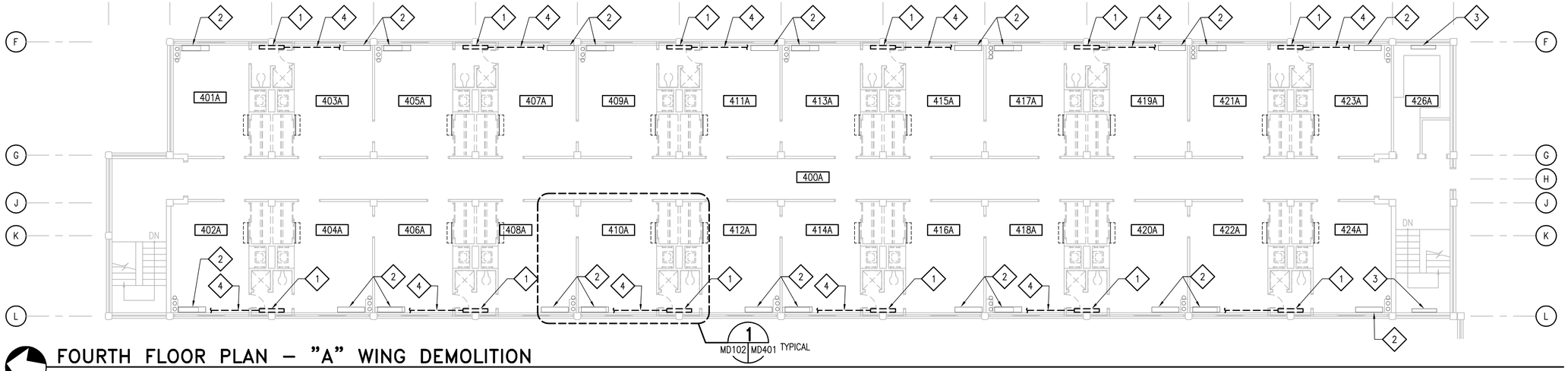
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183034

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 50 OF 106



THIRD FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



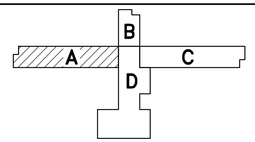
FOURTH FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE CONVECTOR, COVER, PIPING, HANGERS, AND APPURTENANCES COMPLETE. SEE TYPICAL MODULE PLAN A8 SHEET MD401.
2. EXISTING FAN COIL UNIT TO REMAIN.
3. EXISTING CONVECTOR TO REMAIN.
4. REMOVE 1/2" HWS & HWR PIPING. SEE TYPICAL MODULE PLAN SHEET MD401.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
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CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MD102

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES	JLD					
DRWN	EVA					
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	CONST JVA	

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER — DATE
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

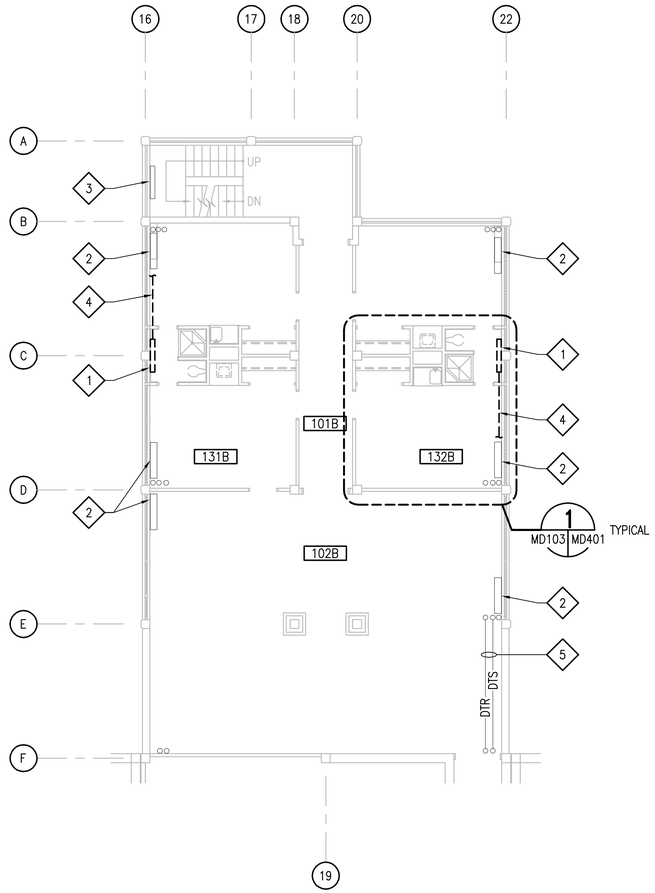
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183035

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 51 OF 106



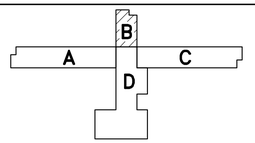
FIRST FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'–0"

KEYNOTES

1. REMOVE CONVECTOR, COVER, PIPING, HANGERS, AND APPURTENANCES COMPLETE. SEE TYPICAL MODULE PLAN A8 SHEET MD401.
2. EXISTING FAN COIL UNIT TO REMAIN.
3. EXISTING CONVECTOR TO REMAIN.
4. REMOVE 1/2" HWS & HWR PIPING. SEE TYPICAL MODULE PLAN SHEET MD401.
5. EXISTING DTS & DTR PIPING TO REMAIN.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0" 0 5' 10' 15' 30'

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MD103

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN CLC
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

SEAL
COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

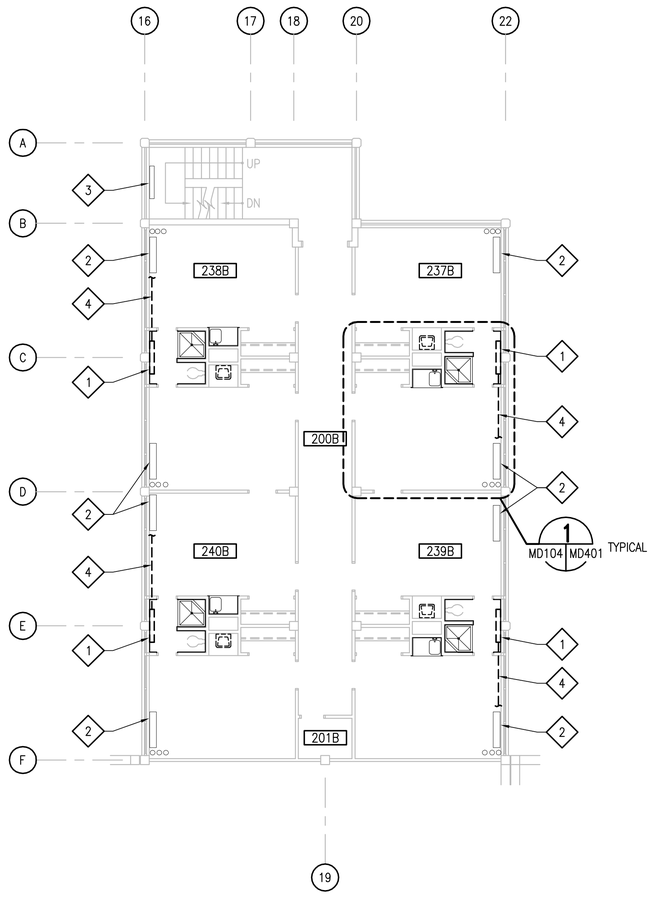
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST FLOOR PLAN – "B" WING DEMOLITION

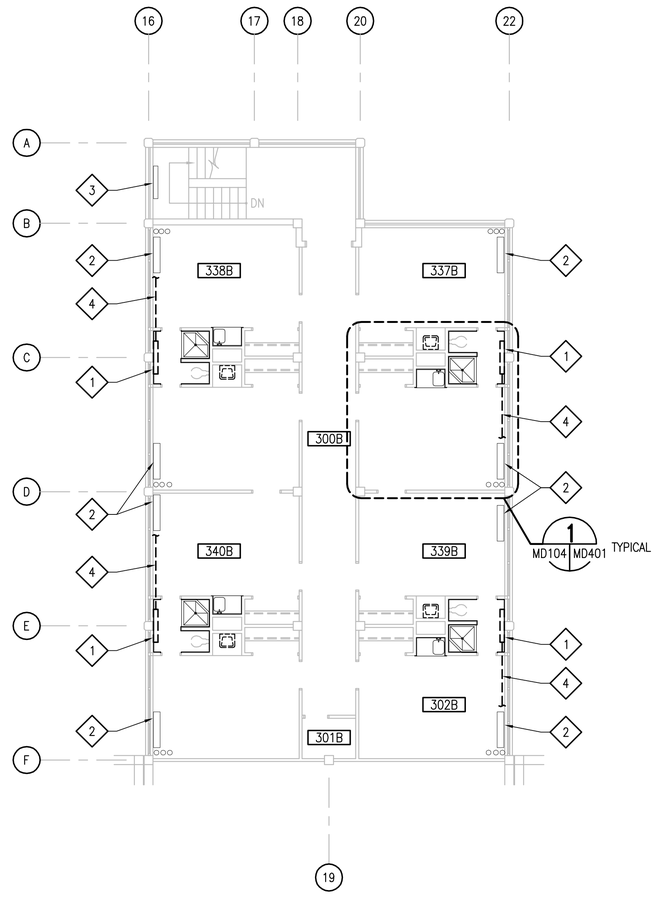
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183036

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 52 OF 106



SECOND FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"



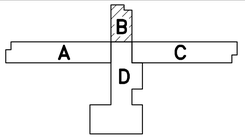
THIRD FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE CONVECTOR, COVER, PIPING, HANGERS, AND APPURTENANCES COMPLETE. SEE TYPICAL MODULE PLAN A8 SHEET MD401.
2. EXISTING FAN COIL UNIT TO REMAIN.
3. EXISTING CONVECTOR TO REMAIN.
4. REMOVE 1/2" HWS & HWR PIPING. SEE TYPICAL MODULE PLAN SHEET MD401.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

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SEAL
COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

SHEET NO.
MD104

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

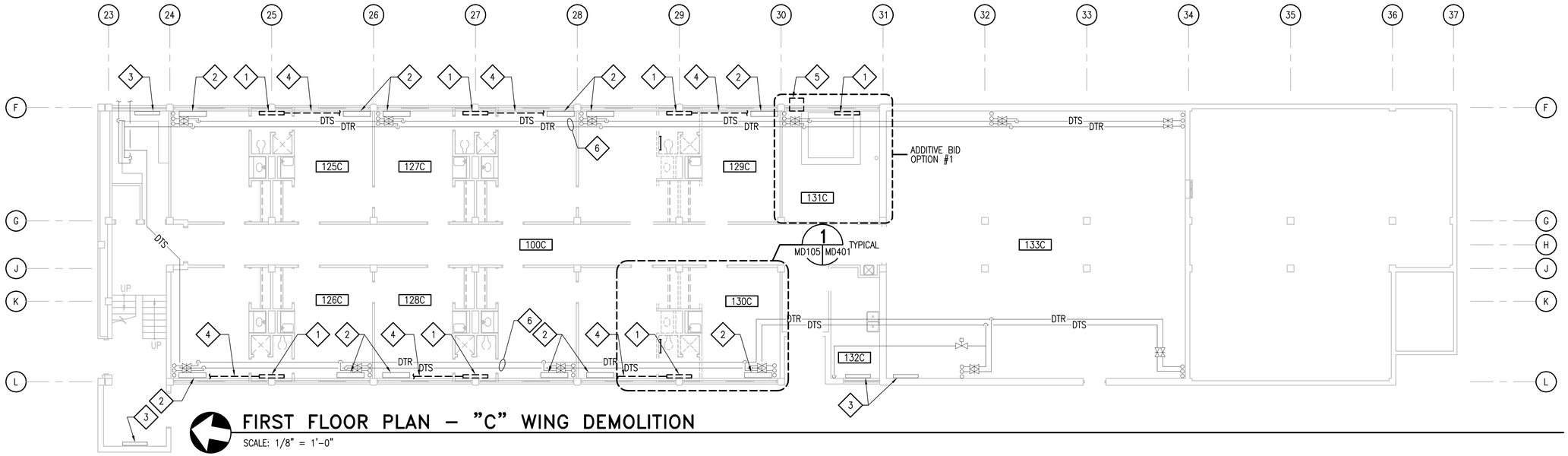
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING DEMOLITION

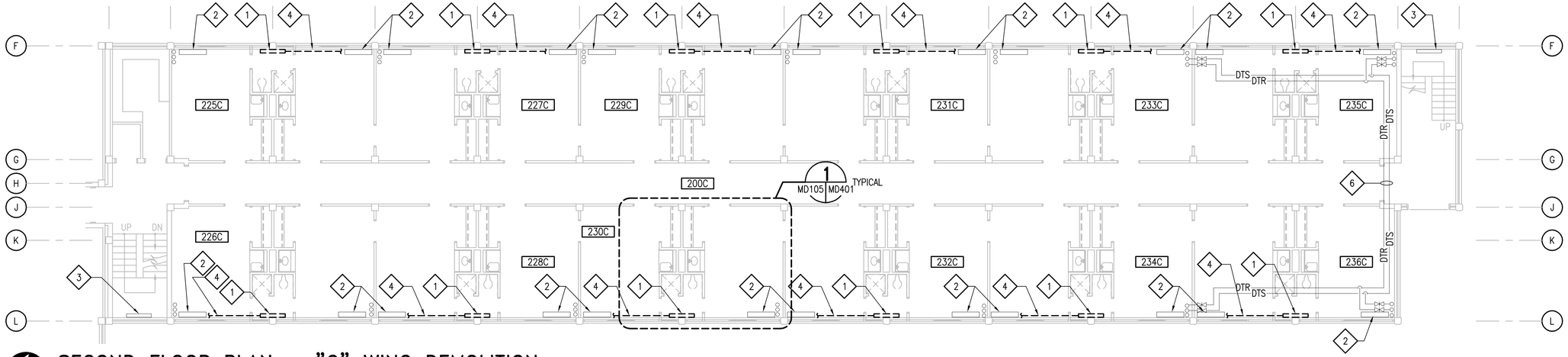
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183037

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 53 OF 106



FIRST FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"



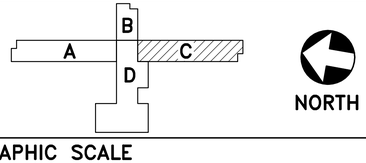
SECOND FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE CONVECTOR, COVER, PIPING, HANGERS, AND APPURTENANCES COMPLETE. SEE TYPICAL MODULE PLAN A8 SHEET MD401.
2. EXISTING FAN COIL UNIT TO REMAIN.
3. EXISTING CONVECTOR TO REMAIN.
4. REMOVE 1/2" HWS & HWR PIPING. SEE TYPICAL MODULE PLAN SHEET MD401.
5. REMOVE WINDOW AIR CONDITIONING UNIT.
6. EXISTING DTS & DTR PIPING TO REMAIN.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MD105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES JLD
DRWN EVA
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

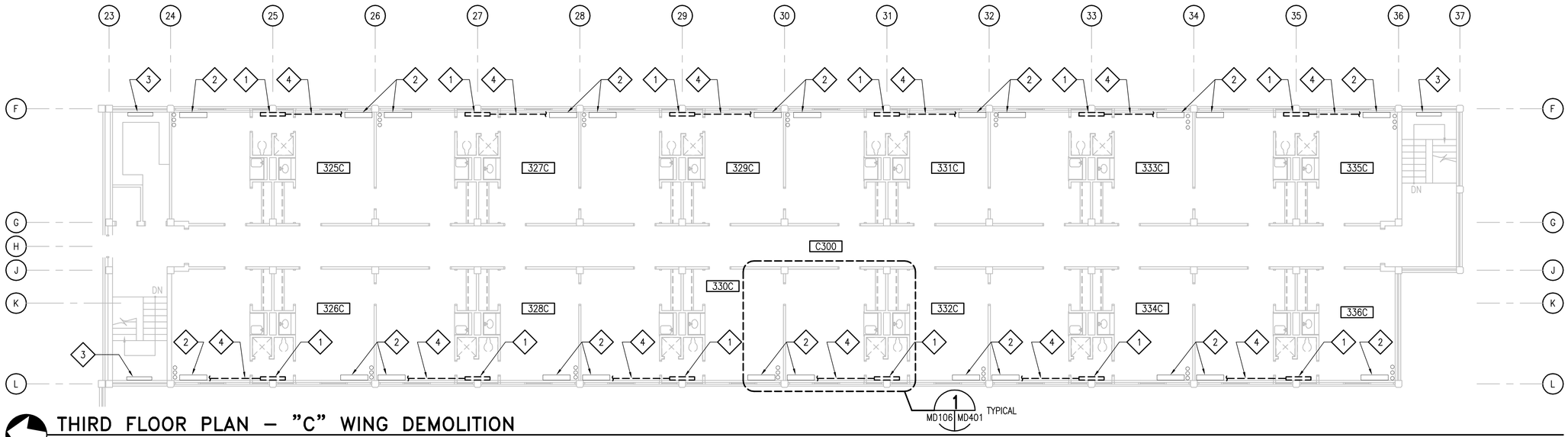
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183038

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 54 OF 106



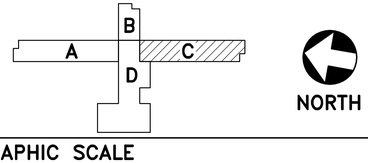
THIRD FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE CONVECTOR, COVER, PIPING, HANGERS, AND APPURTENANCES COMPLETE. SEE TYPICAL MODULE PLAN A8 SHEET MD401.
2. EXISTING FAN COIL UNIT TO REMAIN.
3. EXISTING CONVECTOR TO REMAIN.
4. REMOVE 1/2" HWS & HWR PIPING. SEE TYPICAL MODULE PLAN SHEET MD401.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MD106

SATISFACTORY TO: ROICC DATE
SATISFACTORY TO: SAFETY DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. DATE
SATISFACTORY TO: PWO / OICC DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER DATE

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE QUANTICO, VIRGINIA
PUBLIC WORKS BRANCH

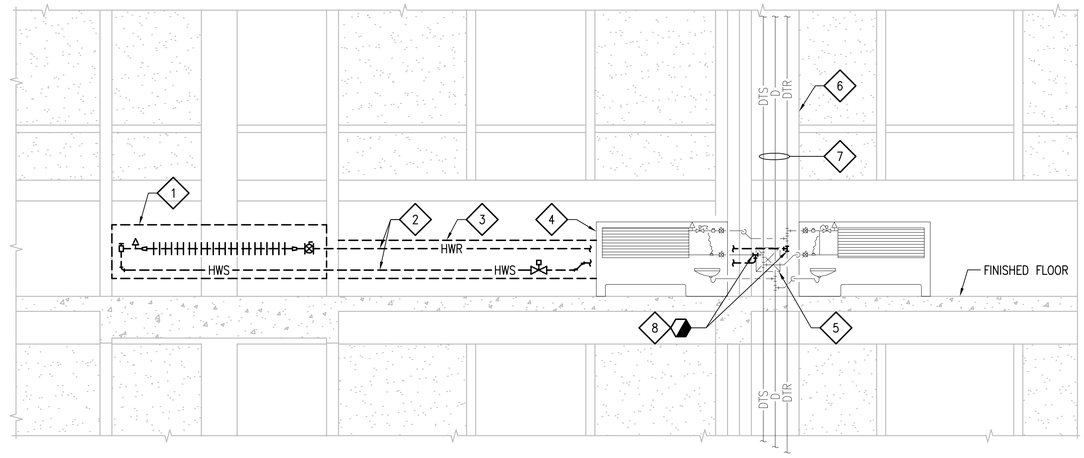
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING DEMOLITION

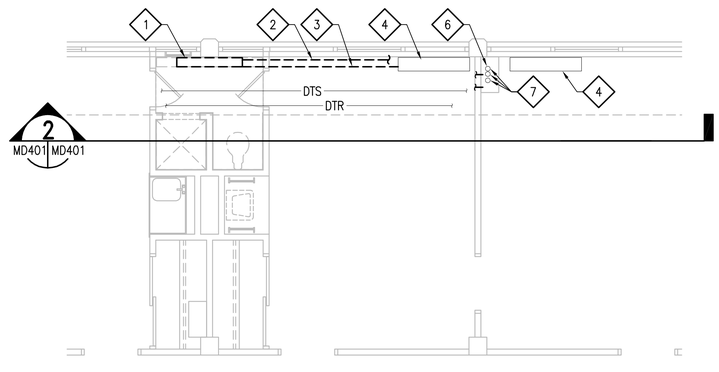
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183039

SCALE: NOTED SPEC. 21-02-1015 SHEET 55 OF 106



2 MD401 | MD401 **SECTION**

SCALE: 1/2" = 1'-0"



1 MD101, MD102, MD103, MD104, MD105, MD106 | MD401 **TYPICAL MODULE PLAN – DEMOLITION**

SCALE: 1/4" = 1'-0"

KEYNOTES

1. REMOVE EXISTING CONVECTOR COVER, END SECTIONS, AND APPURTENANCES COMPLETE.
2. REMOVE 1/2" HWS & HWR PIPING, VALVES, HANGERS, AND OTHER APPURTENANCES.
3. REMOVE PIPE ENCLOSURE.
4. EXISTING FAN COIL UNIT TO REMAIN.
5. EXISTING 8"X8" ACCESS DOOR IN PIPE CHASE.
6. VERTICAL PIPE CHASE.
7. EXISTING DTR, DTS, & DRAIN PIPING TO REMAIN.
8. CUT 1/2" HWS & HWR. PROVIDE PERMANENT CAP.

GRAPHIC SCALE

1/4" = 1'-0" 0 1' 5' 10' 15'

1/2" = 1'-0" 0 6" 1' 2' 3' 4' 5'

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Architecture & Engineering

SHEET NO.
MD401

SEAL
COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

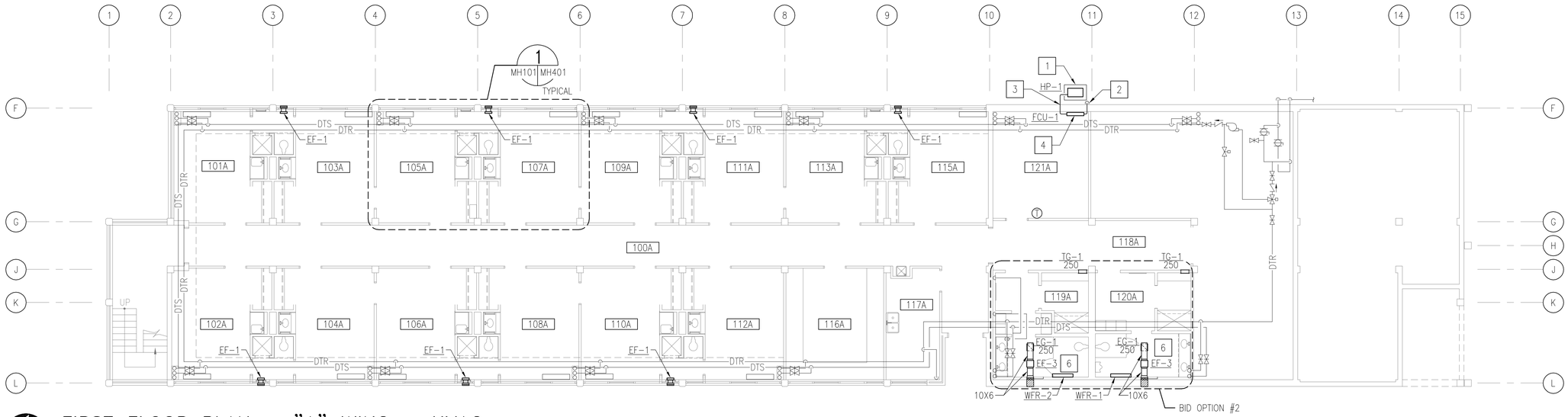
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED PLAN & SECTION – DEMOLITION

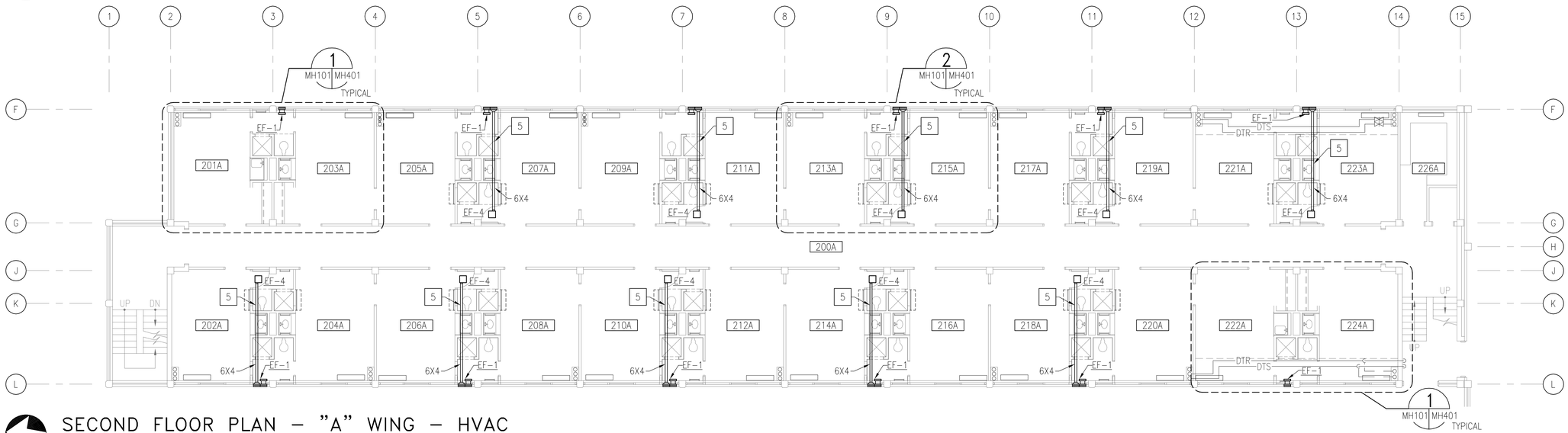
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183040

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 56 OF 106



FIRST FLOOR PLAN – "A" WING – HVAC

SCALE: 1/8" = 1'-0"



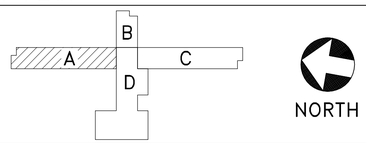
SECOND FLOOR PLAN – "A" WING – HVAC

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE 4" THICK CONCRETE EQUIPMENT PAD.
2. CONDENSATE DRAIN FROM FCU-1. DISCHARGE TO GRADE.
3. RS & RL LINES.
4. HIGH WALL-MOUNTED FAN COIL UNIT.
5. ROUTE EXHAUST DUCT ABOVE CEILING.
6. PROVIDE ACCESS PANEL IN CEILING FOR ACCESS TO EXHAUST FAN.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MH101

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

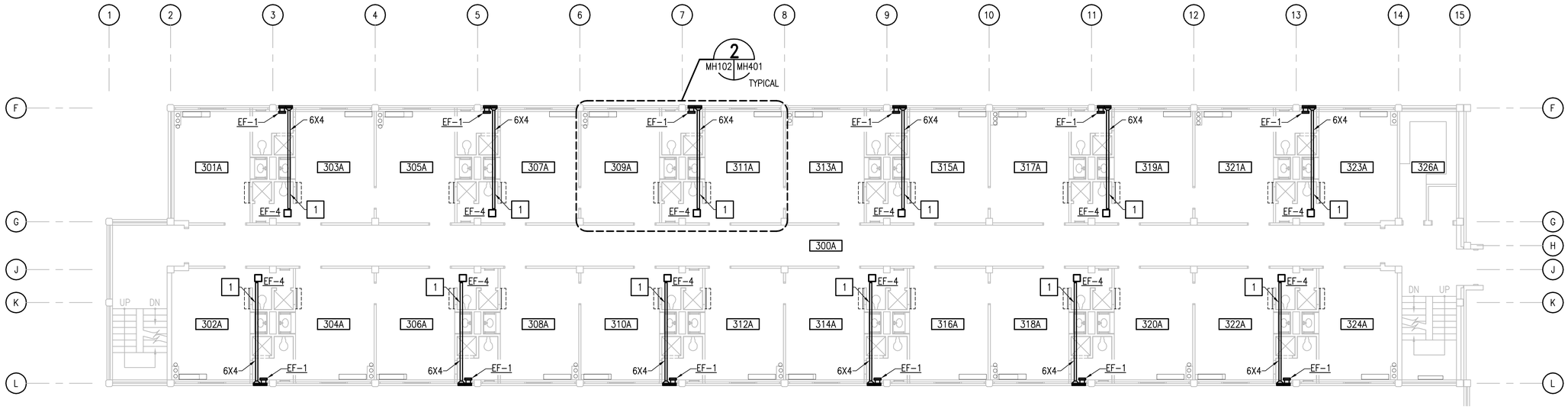
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING – HVAC

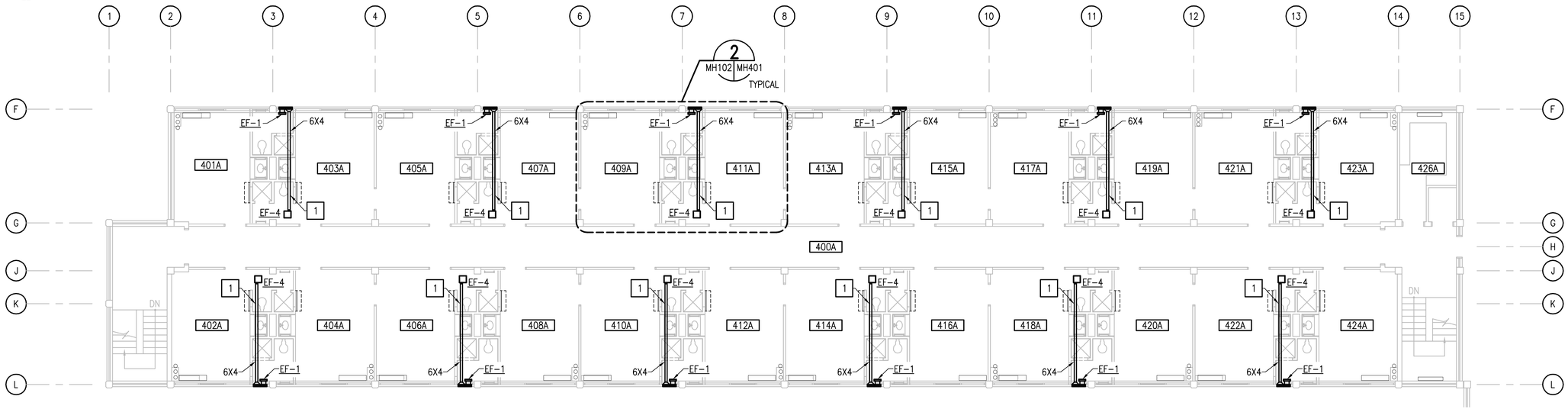
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183041

SCALE: NOTED SPEC. 21-02-1015 SHEET 57 OF 106



THIRD FLOOR PLAN – "A" WING – HVAC

SCALE: 1/8" = 1'-0"



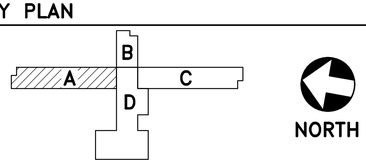
FOURTH FLOOR PLAN – "A" WING – HVAC

SCALE: 1/8" = 1'-0"

KEYNOTES

1 ROUTE EXHAUST DUCT ABOVE CEILING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MH102

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

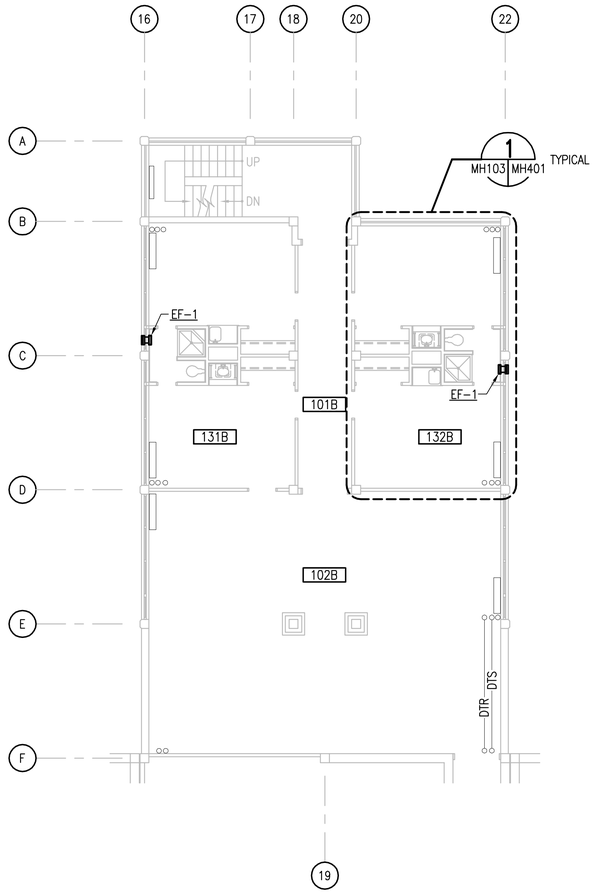
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING – HVAC

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183042

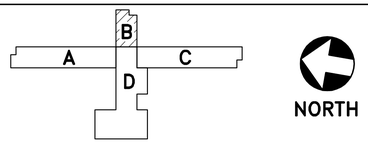
SCALE: NOTED SPEC. 21-02-1015 SHEET 58 OF 106



FIRST FLOOR PLAN – "B" WING – HVAC

SCALE: 1/8" = 1'-0"

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MH103

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN CLC
CHECKED ARCH WHH, ELEC JRW, MECH JLD, CIVIL RLB, CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

SEAL
COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

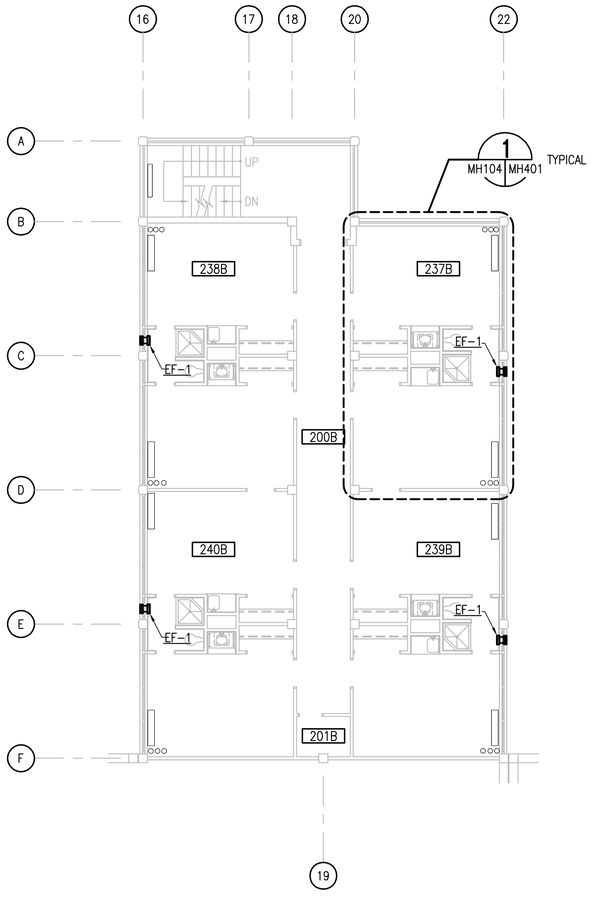
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST FLOOR PLAN – "B" WING – HVAC

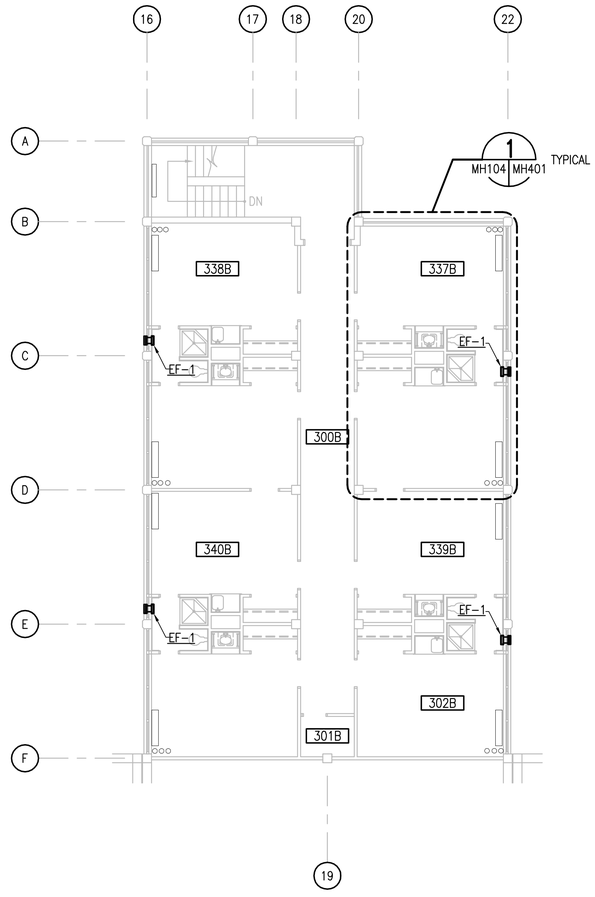
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183043

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 59 OF 106



SECOND FLOOR PLAN – "B" WING – HVAC

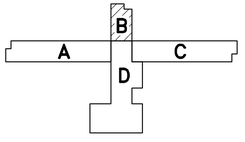
SCALE: 1/8" = 1'-0"



THIRD FLOOR PLAN – "B" WING – HVAC

SCALE: 1/8" = 1'-0"

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

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SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

SHEET NO.
MH104

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

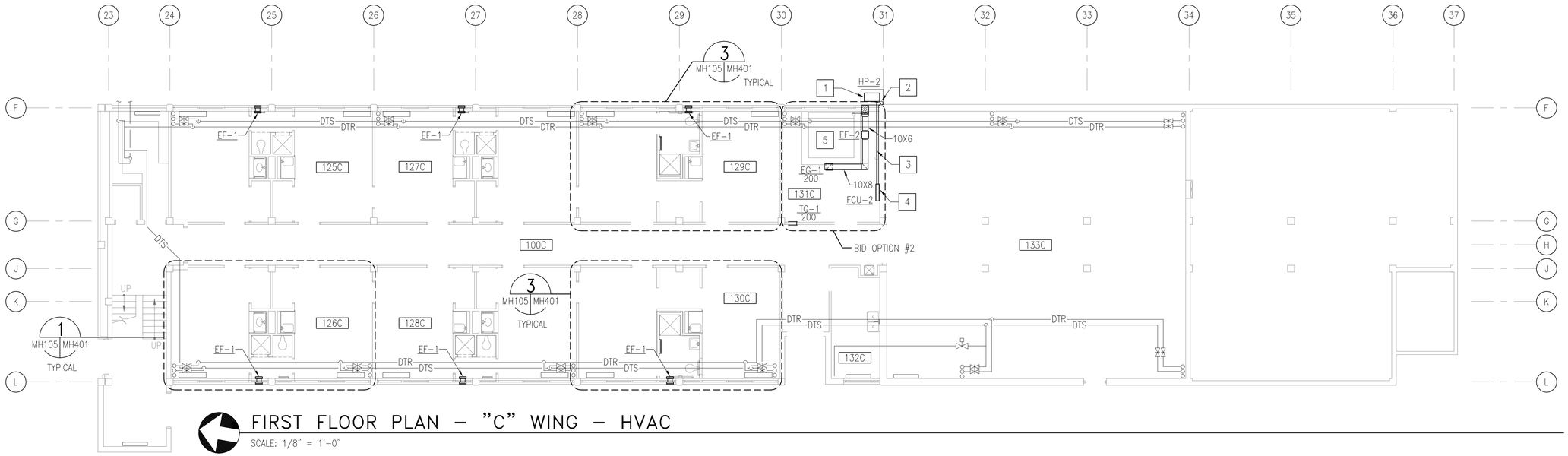
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING – HVAC

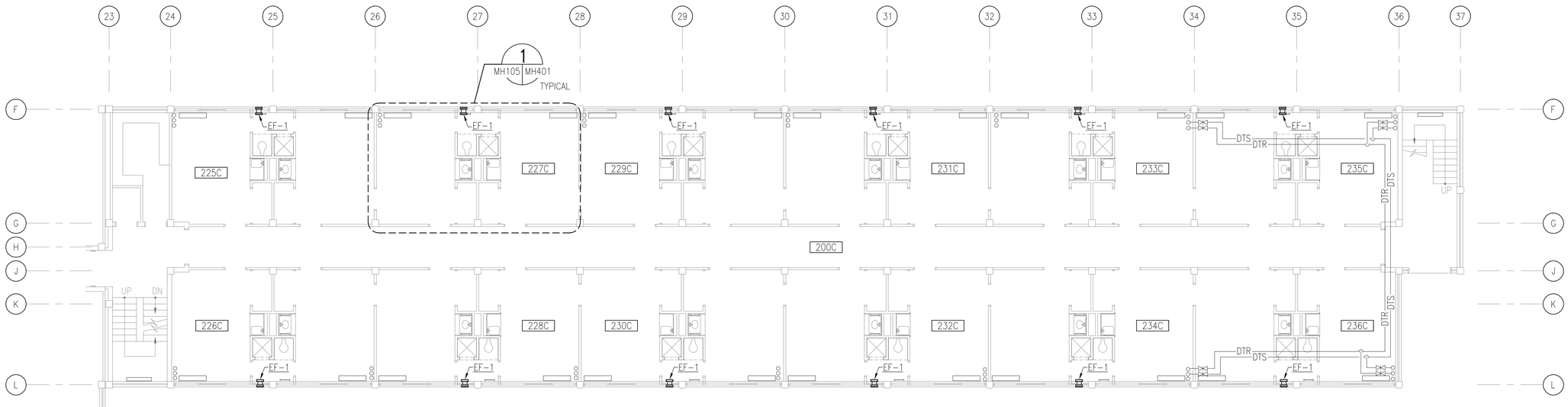
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183044

SCALE: NOTED SPEC. 21-02-1015 SHEET 60 OF 106



FIRST FLOOR PLAN – "C" WING – HVAC

SCALE: 1/8" = 1'-0"



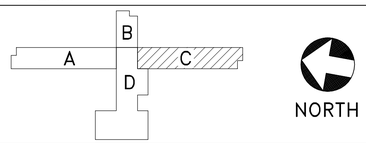
SECOND FLOOR PLAN – "C" WING – HVAC

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE 4" THICK CONCRETE EQUIPMENT PAD.
2. CONDENSATE DRAIN FROM FCU-2. DISCHARGE TO GRADE.
3. RS & RL LINES.
4. HIGH WALL-MOUNTED FAN COIL UNIT.
5. PROVIDE ACCESS PANEL IN CEILING FOR ACCESS TO EXHAUST FAN.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MH105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

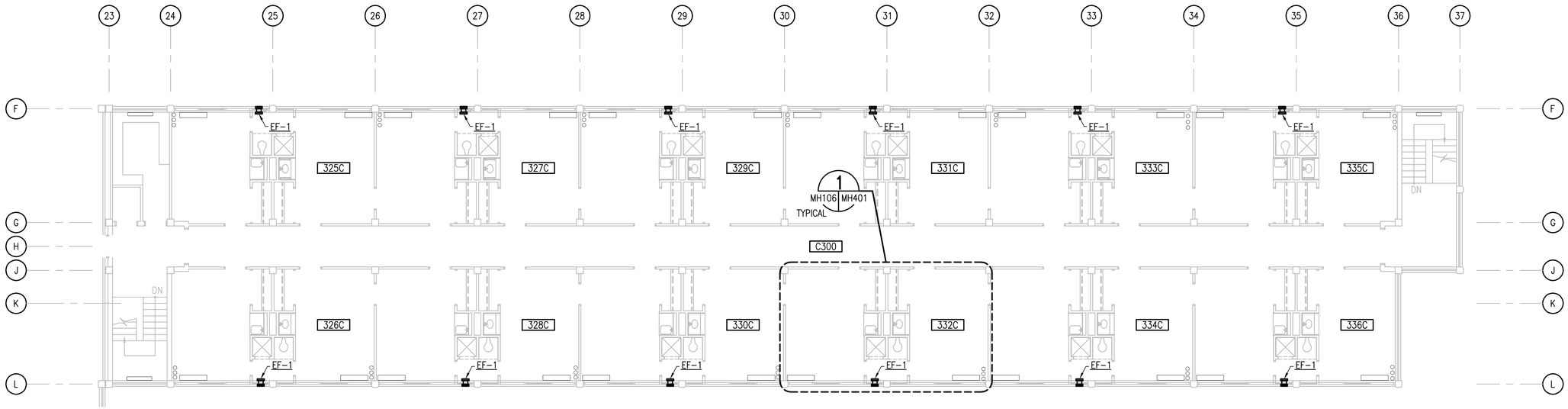
PUBLIC WORKS BRANCH

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING – HVAC

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183045

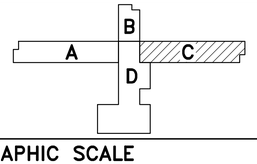
SCALE: NOTED | SPEC. 21-02-1015 | SHEET 61 OF 106



THIRD FLOOR PLAN – "C" WING – HVAC

SCALE: 1/8" = 1'-0"

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MH106

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

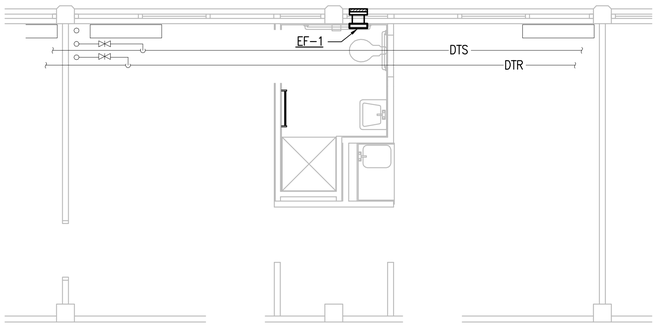
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING – HVAC

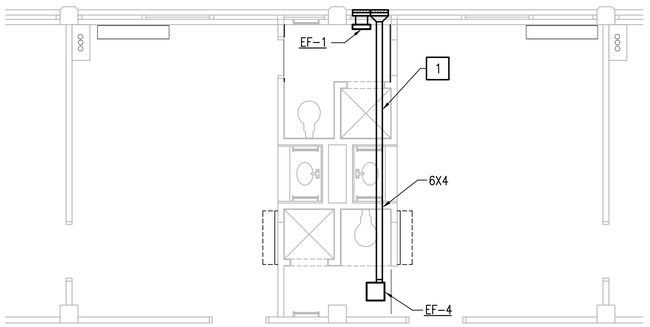
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183046

SCALE: NOTED SPEC. 21-02-1015 SHEET 62 OF 106



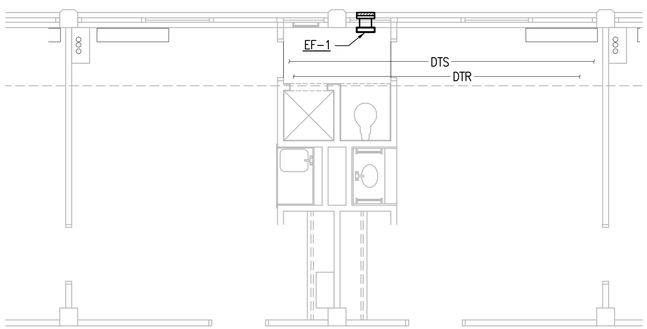
3 MH105 MH401 TYPICAL HANDICAP ACCESSIBLE SUITE – HVAC

SCALE: 1/4" = 1'-0"



2 MH101, MH401 MH102 TYPICAL SUITE MODULE PLAN – HVAC

SCALE: 1/4" = 1'-0"



1 MH101, MH103, MH401 MH104, MH105, MH106 TYPICAL MODULE PLAN – HVAC

SCALE: 1/4" = 1'-0"

KEYNOTES

1 ROUTE EXHAUST DUCT IN CHASE AREA ABOVE NEW CEILING AND FIXTURES.

GRAPHIC SCALE

1/4" = 1'-0" 0 1' 5' 10' 15'

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SHEET NO.
MH401

SEAL
COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

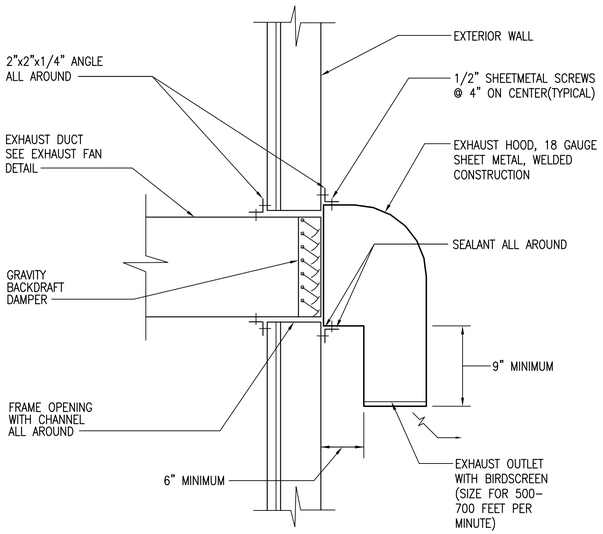
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

ENLARGED PLANS – HVAC

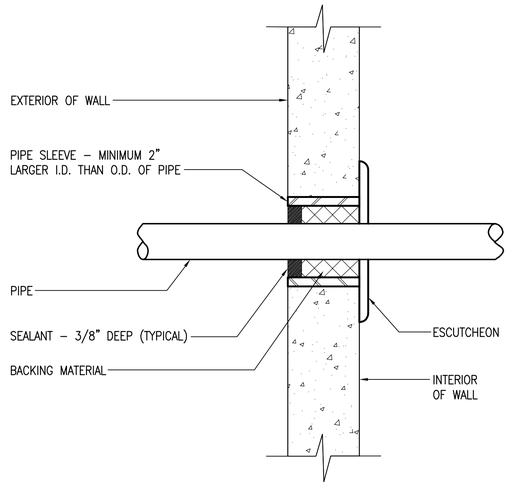
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183047

SCALE: NOTED SPEC. 21-02-1015 SHEET 63 OF 106



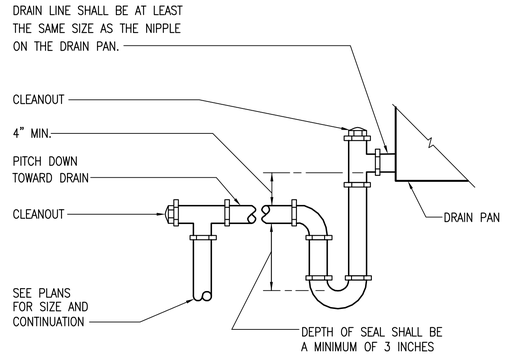
EXHAUST HOOD DETAIL

NO SCALE



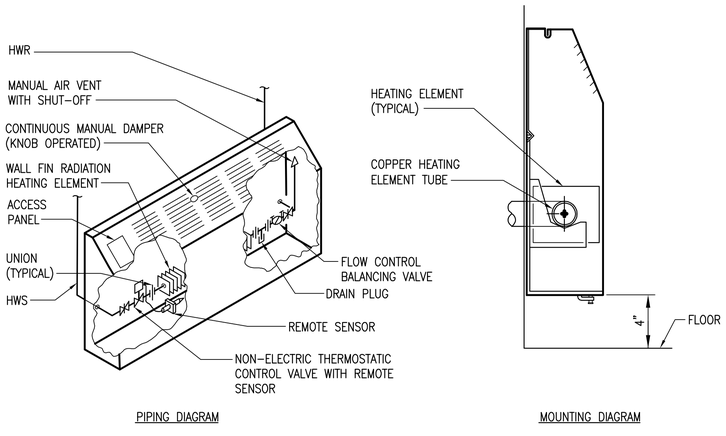
ABOVE GRADE PIPE PENETRATION DETAIL

NO SCALE



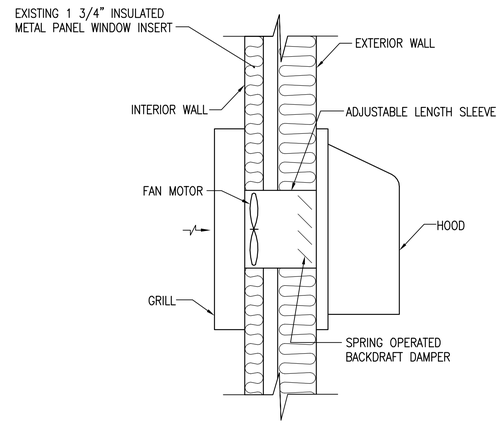
TYPICAL CONDENSATE DRAIN TRAP DETAIL

NO SCALE



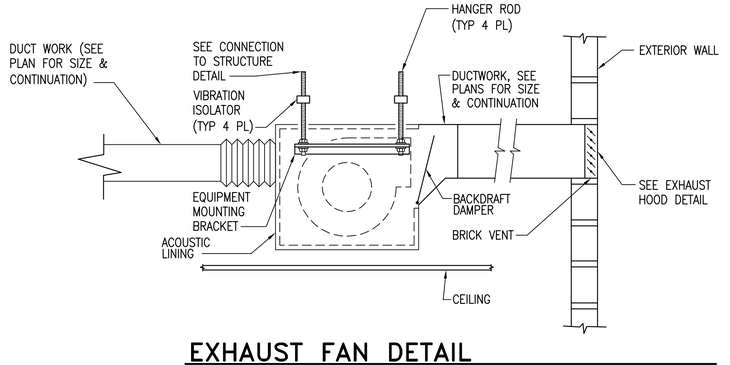
WALL FIN RADIATION DETAIL

NO SCALE



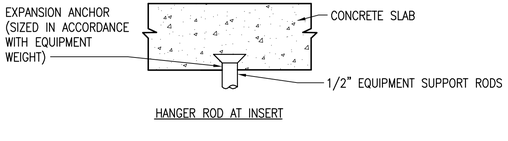
THRU WALL EXHAUST FAN DETAIL

NO SCALE



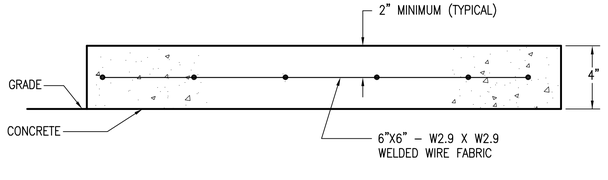
EXHAUST FAN DETAIL

NO SCALE



CONNECTION TO STRUCTURE DETAIL

NO SCALE



NOTE: SLAB DIMENSIONS SHALL EXCEED EQUIPMENT DIMENSIONS BY 6" ON ALL SIDES.

CONCRETE SUPPORT PAD DETAIL

NO SCALE

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L DOVER
No.
032184
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
MH501

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN EVA
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

DETAILS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183048

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 64 OF 106

HOT WATER FINTUBE RADIATION SCHEDULE

MARK	LOCATION	MIN BTUH/LF	CAPACITY (MIN BTUH)	WATER TEMP (°F) ENT.	WATER TEMP (°F) LVG.	GPM	LENGTH (IN)	MAX MTG. HEIGHT (IN)	REMARKS
WFR-1	ROOM 119A	1400	4,938	150.0	130.0	0.5	44.0	18.0	NOTES 1 & 2
WFR-2	ROOM 120A	1400	5,053	150.0	130.0	0.5	44.0	18.0	NOTES 1 & 2

NOTES:

1. BASED ON 140°F AVERAGE WATER TEMPERATURE, 20°F DROP, AND 65°F ENTERING AIR TEMPERATURE.
2. WALL-MOUNTED UNIT WITH OUTLET GRILLE IN SLOPING TOP.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SERVICE	CFM RANGE	MAX NC	MAX SP (IN WG)	NECK SIZE (IN)	SHELL SIZE (IN)	TYPE	THROW (FT)	DIRECTION OF BLOW
EG-1	EXHAUST	200 - 250	30	0.15	8 X 6	10 X 8	SURFACE MOUNT	-	-
TG-1	TRANSFER	200 - 250	30	0.04	14 X 6	16 X 8	SURFACE MOUNT	-	-

NOTES:

1. GRILLES SHALL BE EXTRUDED ALUMINUM CONSTRUCTION

SPLIT SYSTEM HEAT PUMP SCHEDULE

INDOOR UNIT MARK	OUTDOOR UNIT MARK	SERVING	COOLING TOTAL MBH	COOLING SENSIBLE MBH	HEATING MBH	OUTDOOR UNIT ELECT. OPERATING POWER	OUTDOOR UNIT ELECT. MCA	INDOOR UNIT ELECT. OPERATING POWER	INDOOR UNIT ELECT. MCA	SEER	REMARKS
FCU-1	HP-1	RM 121A	6.6	6.2	5.1	87W	8.9	35W	-	10.0	NOTES 1, 2 & 3
FCU-2	HP-2	RM 131C	21.3	10.4	21.9	1/8 HP	15.3	49.0W	10.9	11.0	NOTES 1, 2 & 3

NOTES:

1. 208V/1 PH/60 HZ
2. INDOOR UNIT SHALL BE DUCT-FREE HIGH WALL-MOUNTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. SYSTEM CONTROLS SHALL BE MANUFACTURER'S STANDARD UNIT CONTROLS.

FAN SCHEDULE

MARK	LOCATION	TYPE	CFM	TSP (IN WG)	RPM	SONES	DRIVE	MOTOR HP	MOTOR VOLT/PHASE/HERTZ	REMARKS
EF-1	VARIOUS	BATHROOM, THROUGH-THE-WALL	75	0.13	1200	1.5	DIRECT	16W	115/1/60	NOTE 1
EF-2	ROOM 131C	IN-LINE CABINET	200	0.25	1050	3.0	DIRECT	77W	115/1/60	NOTE 1
EF-3	ROOMS 119A & 120A	IN-LINE CABINET	250	0.25	1050	3.0	DIRECT	77W	115/1/60	NOTE 1
EF-4	VARIOUS	BATHROOM, CEILING MOUNTED	75	0.25	1200	1.5	DIRECT	17W	115/1/60	NOTE 1

NOTES:

1. EXHAUST FAN TO BE INTEGRALLY CONTROLLED WITH ROOM LIGHT SWITCH.

SEAL

COMMONWEALTH OF VIRGINIA
JONATHAN L. DOVER
No. 032184
PROFESSIONAL ENGINEER

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SHEET NO.
MH601

SYMBOL	DESCRIPTION	DATE	APPROVED
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SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES JLD
DRWN CLC
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SCHEDULES

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183049

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 65 OF 106

ELECTRICAL LEGEND

SYMBOL EXISTING	SYMBOL PROVIDE	DESCRIPTION
	LIGHTING	
	A	LIGHTING FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE ON SHEET EL601
◌	○	INCANDESCENT OR COMPACT FLUORESCENT LIGHTING FIXTURE (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURE)
	▭	FLUORESCENT LIGHTING FIXTURE
	▰	FLUORESCENT EGRESS LIGHTING FIXTURE., WITH BATTERY PACK INVERTER.
S	S	SINGLE POLE SWITCH, 20 A, 120/277 V.
SD	SD	DIMMER SWITCH. (WATTAGE AS REQUIRED TO CONTROL THE FIXTURE(S) CONNECTED UON.)
	POWER DEVICES	
⊖=	⊖=	DUPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT 18" AFF UON.
⊖=GFI	⊖=GFI	DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION. 20 A, 125 VAC. MOUNT 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTER TOP.
	TELEPHONE AND DATA SYSTEMS	
	△	TELEPHONE OUTLET BOX, MOUNT 18" AFF UON
	△P	PAY TELEPHONE OUTLET BOX. MOUNT 48" AFF UON
	EQUIPMENT CONNECTIONS	
	Ⓔ	EQUIPMENT CONNECTION AS NOTED
	Ⓜ	MOTOR CONNECTION AS INDICATED
	Ⓕ	EXHAUST FAN, FRACTIONAL HP, UON
Ⓙ	Ⓙ	JUNCTION BOX
	3P 60/40	DISCONNECT SWITCH. 600 V IN NEMA 1 ENCLOSURE UON 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE)
	◪	DISCONNECT SWITCH PROVIDED INTEGRAL WITH EQUIPMENT.
	⊠	MAGNETIC MOTOR CONTROLLER (CONTROLLER FURNISHED WITH EQUIPMENT)
	⊠	MANUAL MOTOR CONTROLLER (CONTROLLER FURNISHED WITH EQUIPMENT)
FCU	FCU	FAN COIL UNIT, 10.9A PROVIDE 30A/2P, 240V, NF DISCONNECT SWITCH FOR UNIT.
SM		MOTOR RATED SWITCH

SYMBOL EXISTING	SYMBOL PROVIDE	DESCRIPTION
		DISTRIBUTION
		PANELBOARD – 208Y/120V, 3ø, 4 WIRE.
		WIRE, CONDUIT AND RACEWAY
OR	OR	BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATE 2 #12 CONDUCTORS & 1 #12 GND. IN 1/2" CONDUIT UON. TICK MARKS, WHEN SHOWN, INDICATE NUMBER OF #12 CONDUCTORS IF OTHER THAN THREE; (⏚) INDICATES GROUND. CONDUIT LARGER THAN 1/2" & WIRE LARGER THAN #12 SHALL BE AS INDICATED.
		HOMERUNS TO PANEL. PANEL & CIRCUIT DESIGNATIONS AS INDICATED
		GENERAL
	1	DEMOLITION NOTE IDENTIFICATION
	1	CONSTRUCTION NOTE IDENTIFICATION
	127	ROOM NUMBER.
		CROSS HATCHING INDICATES REMOVE INDICATED DEVICE OR CIRCUIT.
		INTRUSION DETECTION SYSTEM (SEE DETAIL SHEET EL402)
	DC	DOOR CONTACT JUNCTION BOX – PROVIDE 1/2"C TO DOOR JUNCTION BOX.
	R	REQUEST TO EXIT JUNCTION BOX – PROVIDE 1/2"C TO DOOR JUNCTION BOX.
	ML	MAGLOCK AND MOUNTING BRACKET JUNCTION BOX – PROVIDE 1/2"C TO DOOR JUNCTION BOX.
	DJ	DOOR JUNCTION BOX, 8" x 8" SQ, MOUNT AT CEILING LEVEL. PROVIDE 1/2"C TO DOOR JUNCTION BOX.
	CR	CARD READER DEVICE, AND WIRING NOT IN CONTRACT. PROVIDE 1/2"C TO DOOR JUNCTION BOX.

ABBREVIATIONS

A	AMPERE	FLA	FULL LOAD AMPS
A/C	AIR CONDITIONING	GFI	GROUND FAULT INTERRUPTER
AFF	ABOVE FINISHED FLOOR	GND	GROUND
AHU	AIR HANDLING UNIT	KAIC	THOUSAND AMP INTERRUPTING CAPACITY, RMS SYMMETRICAL
AWG	AMERICAN WIRE GAUGE	KCMIL	THOUSAND CIRCULAR MILS
BRKR	BREAKER	P	POLE
C	CONDUIT	SF	SUPPLY FAN
CB	CIRCUIT BREAKER	SW	SWITCH
EC	EMPTY CONDUIT	UON	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	V	VOLTS
EWC	ELECTRIC WATER COOLER	W	WIRE

LEGEND NOTES

1. WHERE A NEW-TO-EXISTING CONNECTION IS INDICATED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS (JUNCTION BOXES, WIRE, CONDUIT, ETC.) AND LABOR REQUIRED TO MAKE THE CONNECTION.
2. WHERE EQUIPMENT OR DEVICES ARE NOTED AS "REMOVE", REMOVE ALL CONDUCTORS ASSOCIATED WITH THESE ITEMS TO THE LAST ACTIVE ITEM ON THE CIRCUIT.

GENERAL NOTES:

1. COORDINATE EXACT LOCATION OF CEILING MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. COORDINATE MECHANICAL EQUIPMENT LOCATIONS.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL REROUTE AND RECONNECT ANY CIRCUIT/ CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE NEW CONSTRUCTION.
2. EXISTING CIRCUITRY IS BASED ON AS-BUILT DRAWINGS AND NON-DESTRUCTIVE FIELD INVESTIGATIONS. FIELD VERIFY PRIOR TO COMMENCING WORK.

SEAL: COMMONWEALTH OF VIRGINIA — JAMES R. WALLS — No. 6769 — PROFESSIONAL ENGINEER

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SHEET NO. E-001

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

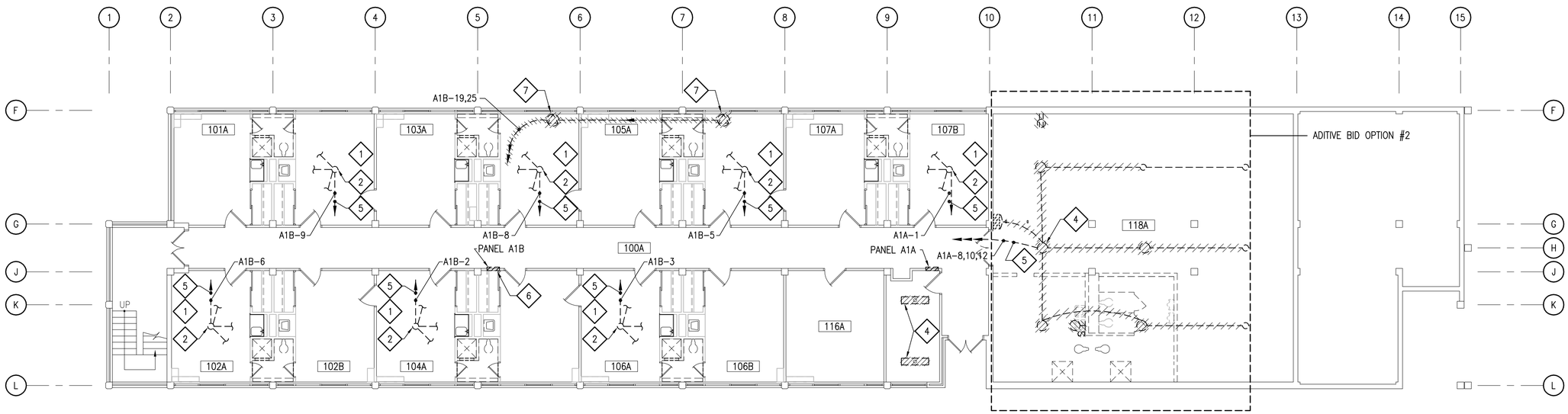
REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGEND, NOTES AND ABBREVIATIONS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183050

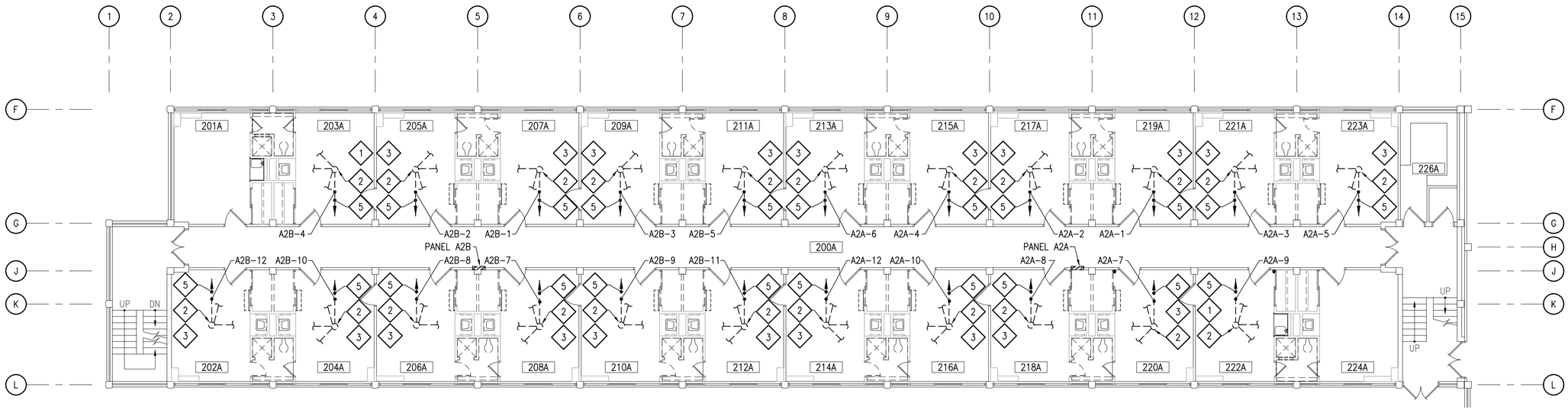
SCALE: NOTED | SPEC. 21-02-1015 | SHEET 66 OF 106

SATISFACTORY TO:	DATE	SATISFACTORY TO:	DATE
ROICC		DIRECTOR ENGINEERING DIV.	
SAFETY		PWO / OICC	
CUSTOMER		FACILITIES MAINTENANCE OFFICER	
FIRE INSPECTOR			



FIRST FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



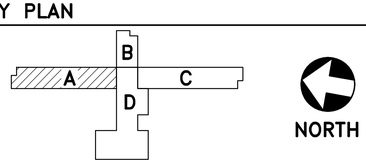
SECOND FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE/SINGLE PLAN.
3. SEE "TYPICAL SINGLE QUARTERS PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.
4. RETAIN CIRCUITRY FOR CONNECTION OF NEW LIGHTING. SEE "FIRST FLOOR – "A" WING – LIGHTING", SHEET EL101, FOR CONTINUATION OF WORK.
5. EXISTING HOMERUN WITH CIRCUITRY AS INDICATED.
6. GE, DNAB, 208/120V, 3ø, 4W, 200A MCB PANELBOARD. REMOVE 2-20A/3P CIRCUIT BREAKERS IN POSITION NUMBER 19 & 25. PROVIDE CIRCUIT BREAKERS AS INDICATED ON SHEET EP601. CUT AND PATCH CMU WALL TO CONCEAL CONDUITS. PAINT WALL SECTION (DOOR TO DOOR) TO MATCH EXISTING FINISH.
7. 208V, 3ø, RECEPTACLE (ABANDONED A/C RECEPTACLE). REMOVE RECEPTACLE AND WIRING BACK TO SOURCE, PROVIDE BLANK COVER PLATE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
ED101

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

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SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

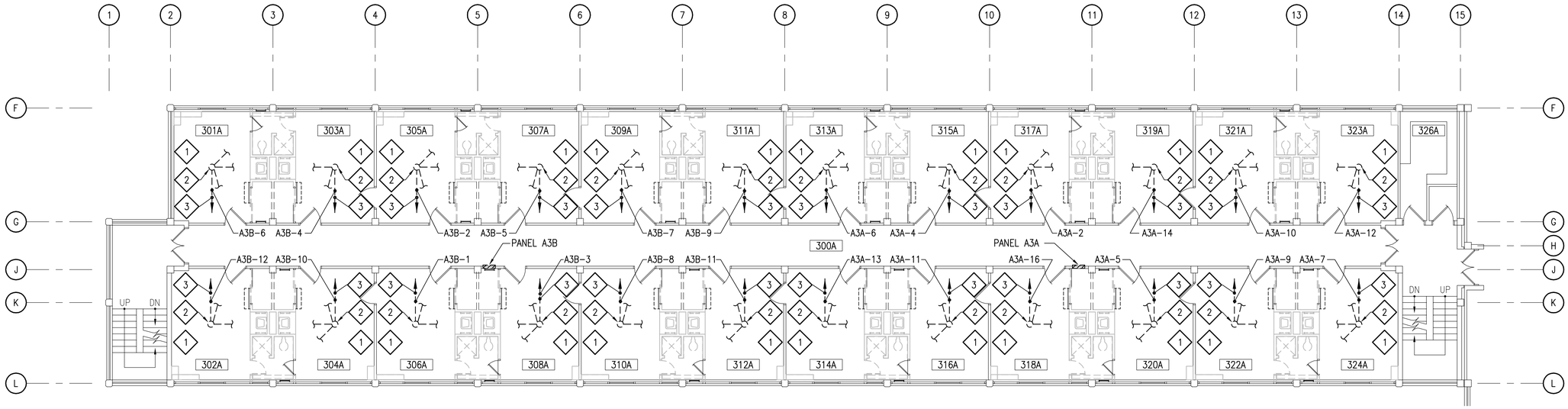
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING DEMOLITION

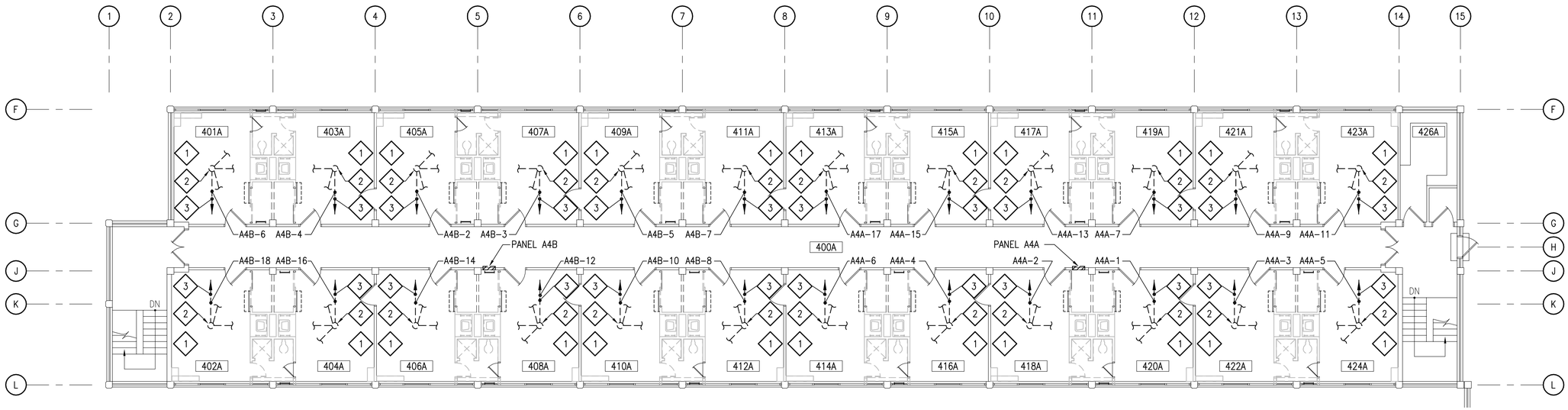
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183051

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 67 OF 106



THIRD FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"



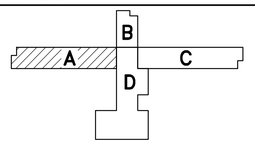
FOURTH FLOOR PLAN – "A" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SINGLE QUARTERS PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SINGLES PLAN.
3. EXISTING HOMERUN WITH CIRCUITRY AS INDICATED.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
ED102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	CA				
DRWN	JEF				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

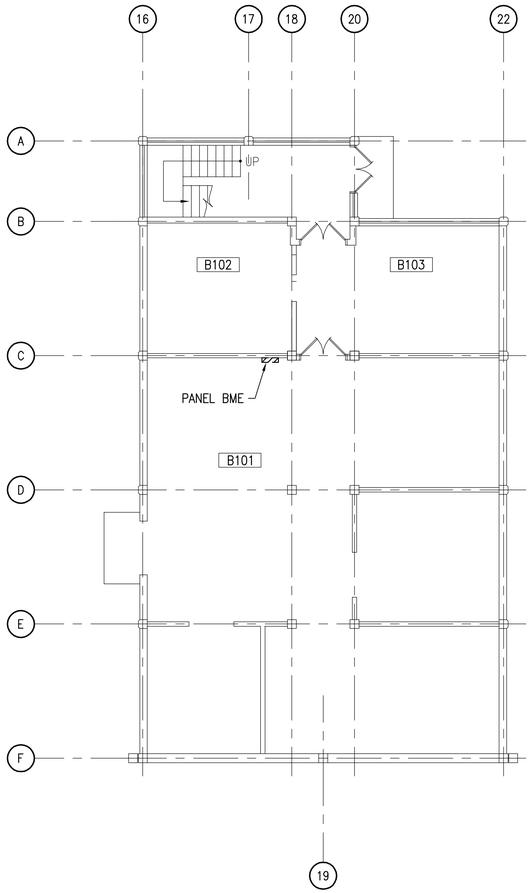
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING DEMOLITION

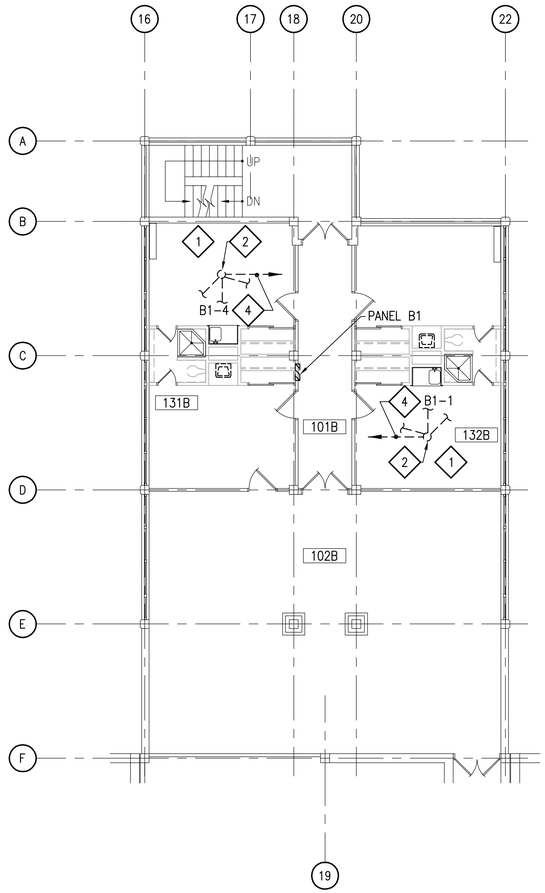
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183052

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 68 OF 106



BASEMENT FLOOR PLAN – "B" WING DEMOLITION ◇3

SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

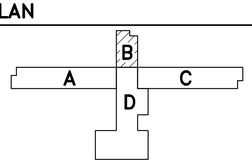
◇1 SEE "TYPICAL SUITE PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.

◇2 DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE PLAN.

◇3 NO WORK THIS FLOOR, THIS WING.

◇4 EXISTING CIRCUITRY WITH HOMERUN AS INDICATED

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
ED103

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

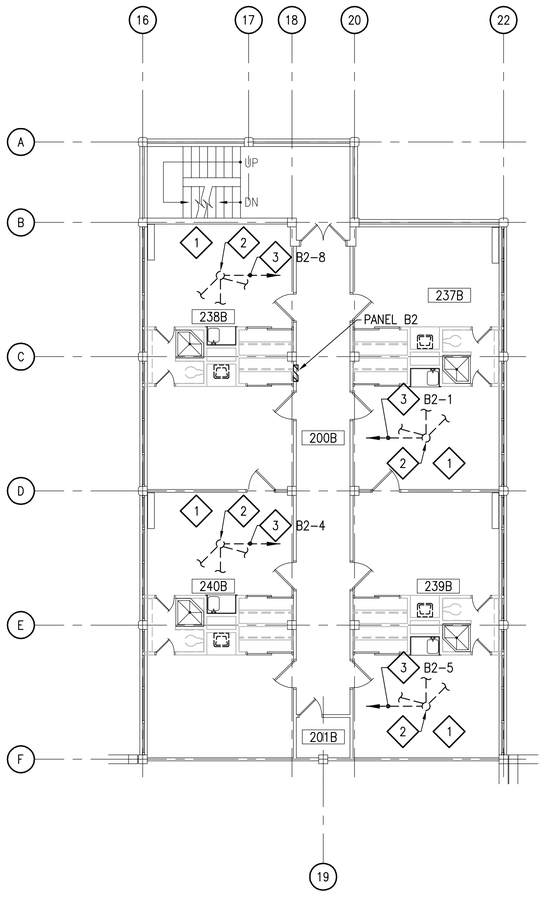
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING DEMOLITION

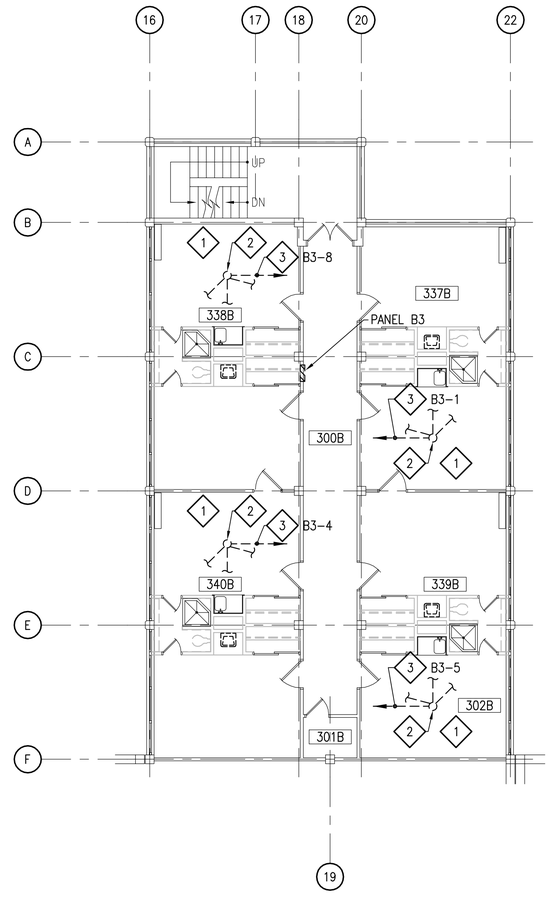
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183053

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 69 OF 106



SECOND FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"



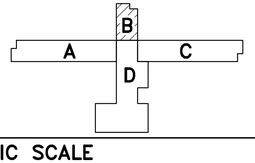
THIRD FLOOR PLAN – "B" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE PLAN.
3. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

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SHEET NO.
ED104

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

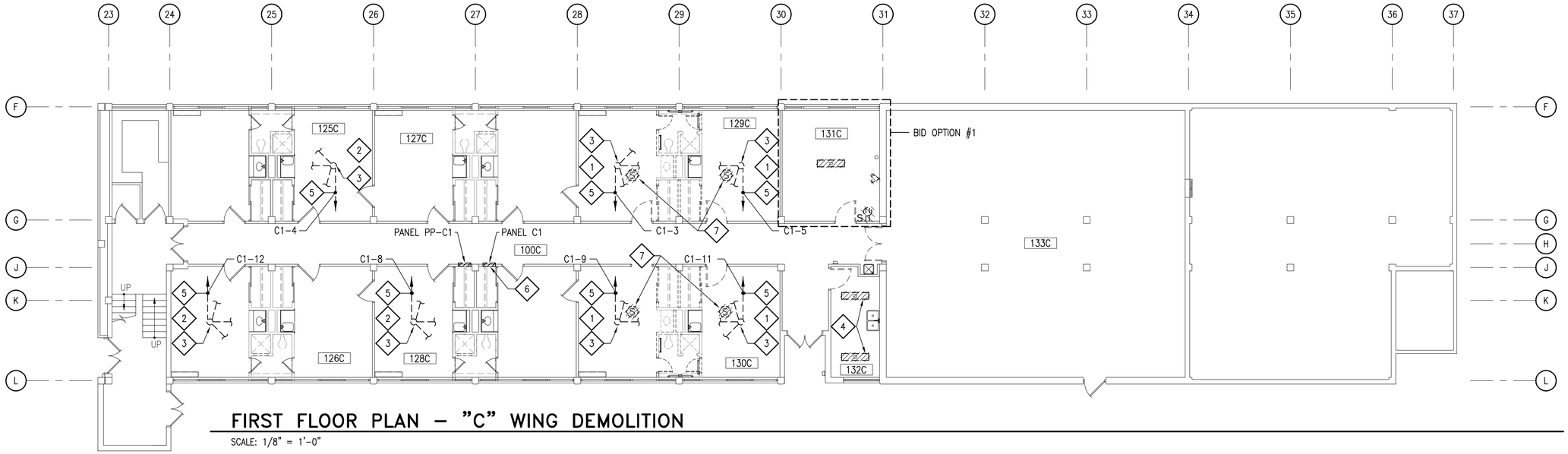
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING DEMOLITION

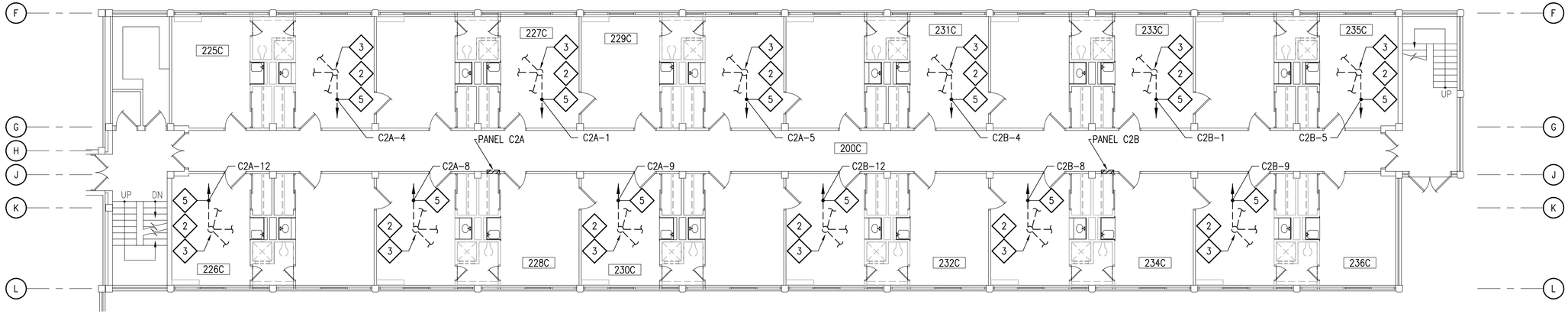
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183054

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 70 OF 106



FIRST FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"



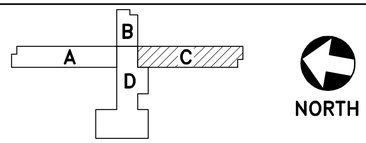
SECOND FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL ACCESSIBLE SUITE PLAN – DEMOLITION", SHEET ED402, FOR CONTINUATION OF WORK THIS ROOM.
2. SEE "TYPICAL SUITE PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.
3. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE/SINGLES PLAN.
4. RETAIN CIRCUITRY FOR CONNECTION OF NEW LIGHTING. SEE "FIRST FLOOR PLAN – "C" WING – LIGHTING AND POWER", SHEET EL105, FOR CONTINUATION OF WORK.
5. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED
6. GE, DNAB, 208/120V, 3ø, 4W, 100A MCB PANELBOARD. REMOVE 3-20A/1P CIRCUIT BREAKERS IN POSITION NUMBER 23, 25 & 27. SEE SHEET EP604 FOR NEW BREAKER SIZE AND LOCATION IN PANEL.
7. EXISTING SMOKE DETECTOR LOCATION. RETAIN ELECTRICAL CIRCUITRY FOR CONNECTION TO NEW SMOKE DETECTORS.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

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SHEET NO.
ED105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	CA					
DRWN	JEF					
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	CONST JVA	

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

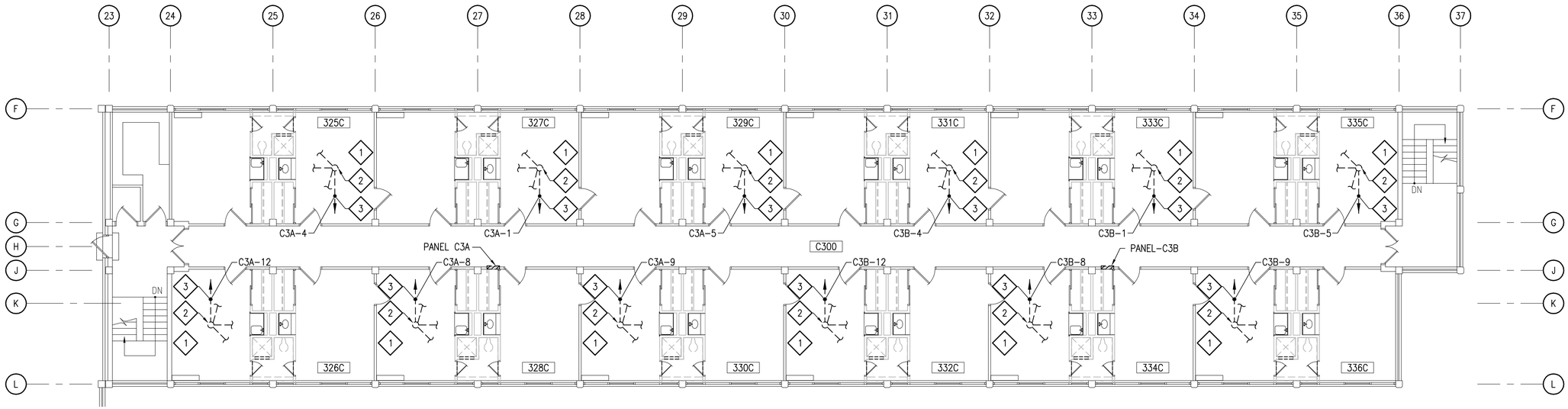
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183055

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 71 OF 106



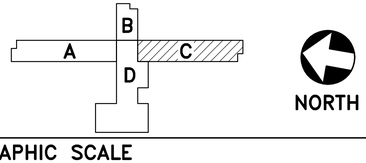
THIRD FLOOR PLAN – "C" WING DEMOLITION

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – DEMOLITION", SHEET ED401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE PLAN.
3. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

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SHEET NO.
ED106

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES	CA				
DRWN	JEF				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

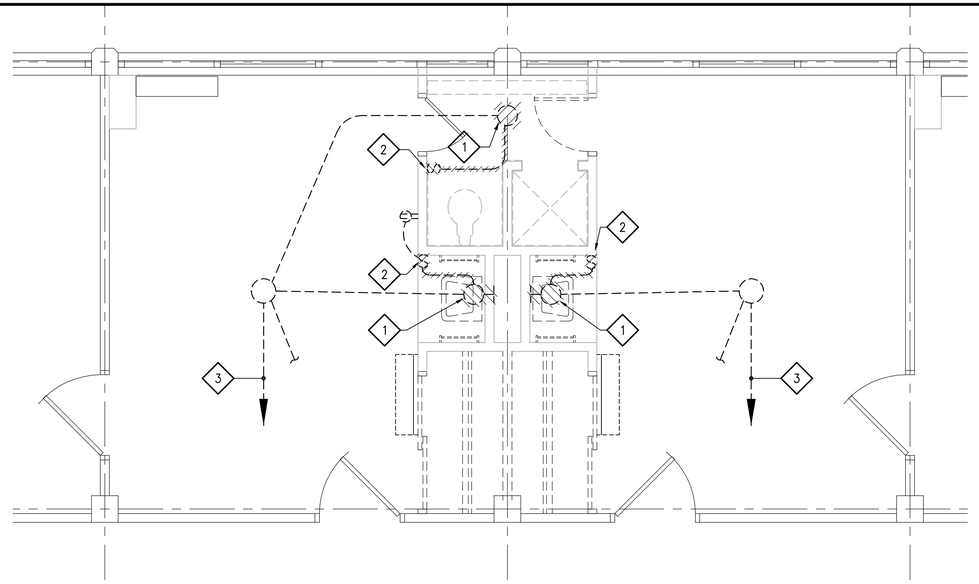
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING DEMOLITION

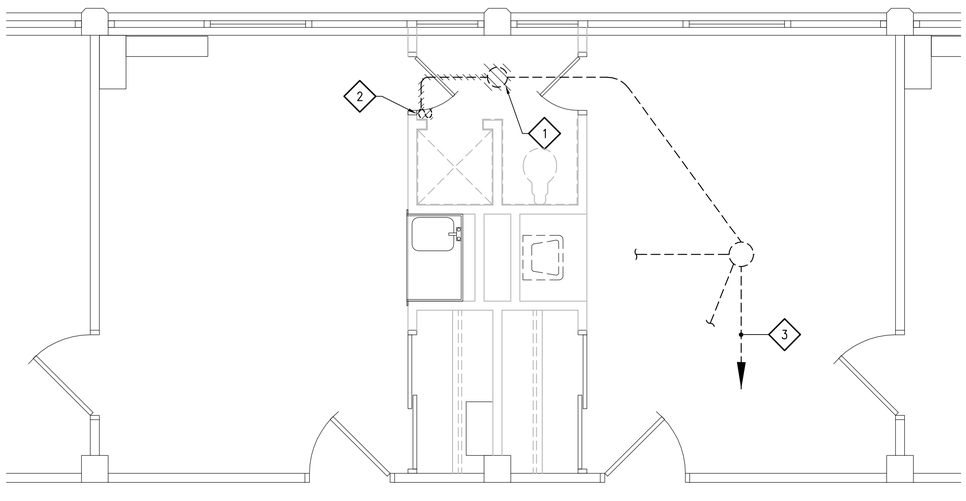
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183056

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 72 OF 106



TYPICAL SINGLE QUARTERS PLAN – DEMOLITION

SCALE: 3/8" = 1'–0"



TYPICAL SUITE PLAN – DEMOLITION

SCALE: 3/8" = 1'–0"

KEYNOTES

1. REMOVE LIGHTING FIXTURE. RETAIN CIRCUITRY FOR CONNECTION TO NEW LIGHTING FIXTURE.
2. REMOVE SWITCH, RETAIN JUNCTION BOX FOR INSTALLATION OF NEW SWITCH.
3. EXISTING HOMERUN (CIRCUITRY). SEE FLOOR PLAN FOR CIRCUIT NUMBER.

GRAPHIC SCALE

3/8" = 1'–0" 0 1' 2' 3' 4' 5' 10'

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Architecture & Engineering

SHEET NO.
ED401

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

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COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

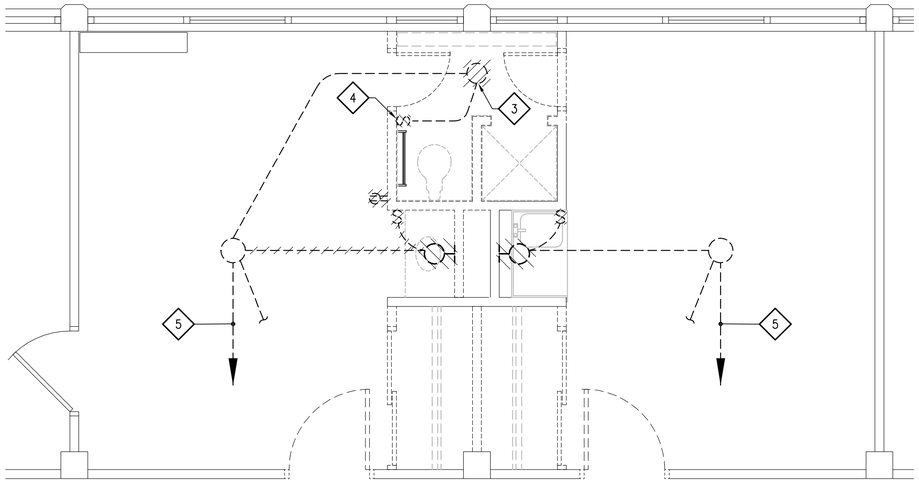
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

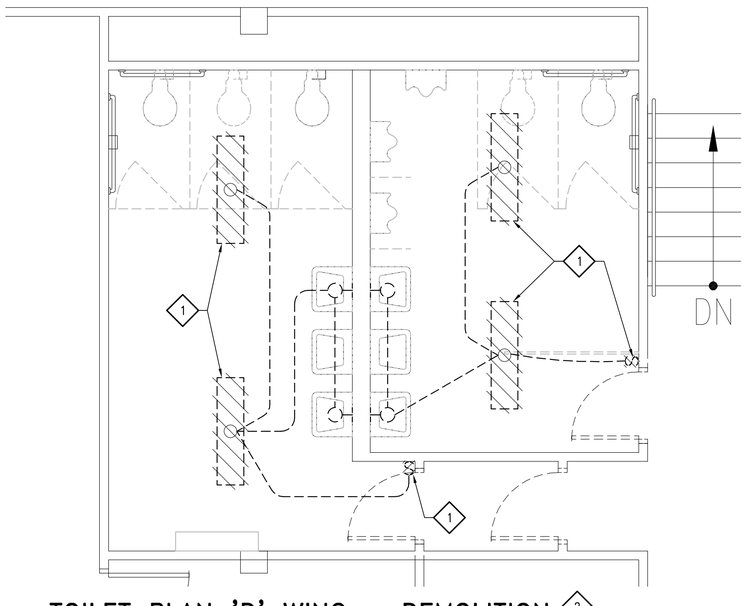
TYPICAL MODULE PLANS – DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183057
SCALE: NOTED	SPEC. 21–02–1015	SHEET 73 OF 106	



TYPICAL ACCESSIBLE SUITE PLAN – DEMOLITION

SCALE: 3/8" = 1'-0"



TOILET PLAN 'D' WING – DEMOLITION ◇2

SCALE: 3/8" = 1'-0"

KEYNOTES

1. REMOVE DEVICE, RETAIN JUNCTION BOX & CIRCUITRY FOR RECONNECTION OF NEW DEVICES.
2. BID OPTION #4.
3. REMOVE LIGHTING FIXTURE, RETAIN CIRCUITRY FOR CONNECTION TO NEW LIGHTING FIXTURE.
4. REMOVE SWITCH, RETAIN JUNCTION BOX FOR PLACEMENT OF NEW SWITCH.
5. EXISTING HOMERUN (CIRCUITRY). SEE FLOOR PLAN FOR CIRCUIT NUMBER.

GRAPHIC SCALE

3/8" = 1'-0" 0 1' 2' 3' 4' 5' 10'

SEAL

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SHEET NO.
ED402

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

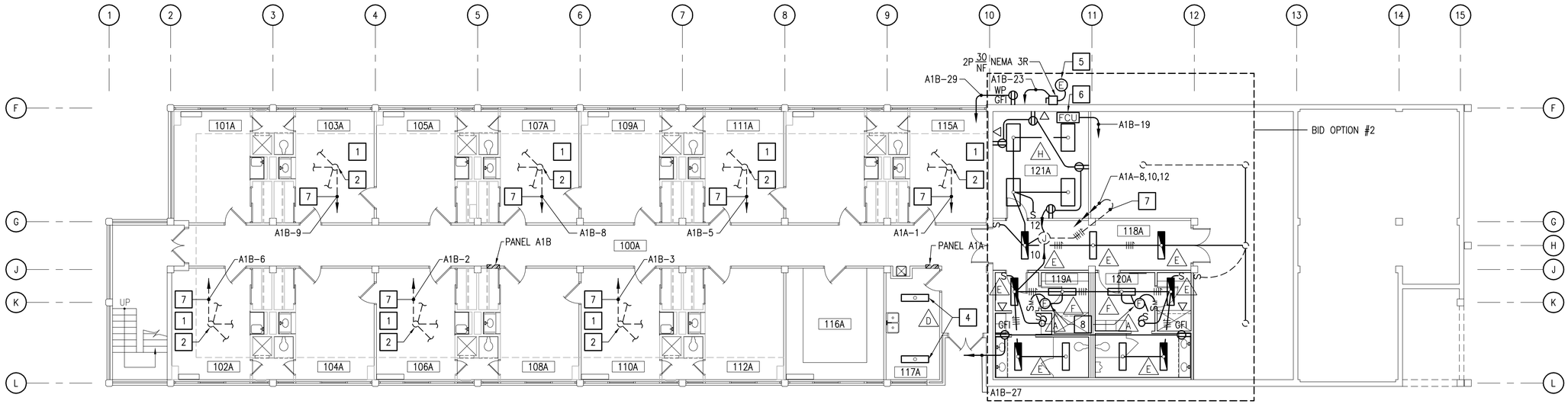
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

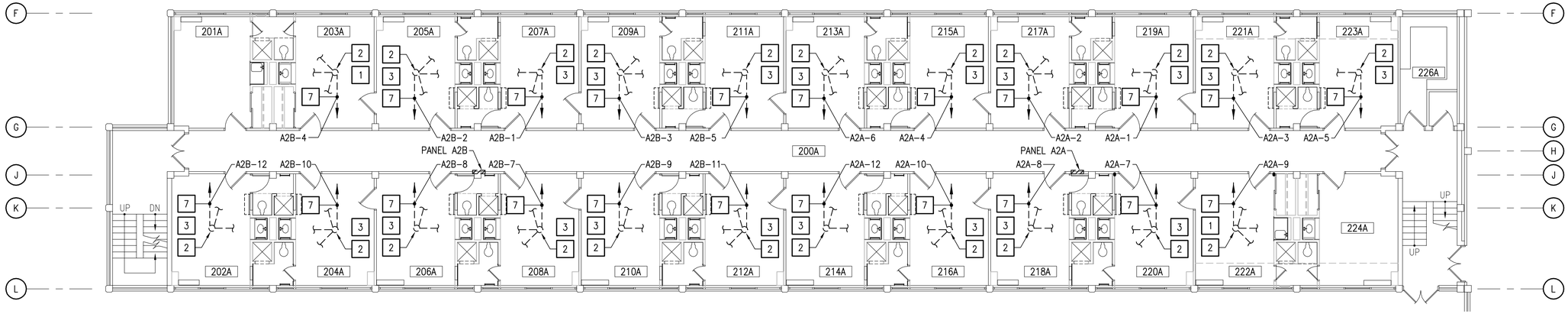
TOILET PLAN – DEMOLITION.

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183058
SCALE: NOTED	SPEC. 21-02-1015	SHEET 74 OF 106	



FIRST FLOOR PLAN – "A" WING – LIGHTING AND POWER

SCALE: 1/8" = 1'-0"



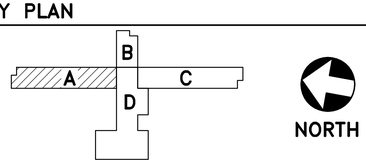
SECOND FLOOR PLAN – "A" WING – LIGHTING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – LIGHTING", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE/SINGLE PLAN.
3. SEE "TYPICAL SINGLE QUARTERS PLAN – LIGHTING AND POWER", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
4. PROVIDE CONNECTION TO EXISTING CIRCUITRY.
5. ACCU-1, 208V, 1ø, 10.5A.
6. FCU-1, 208V, 1ø, 8.3A.
7. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED
8. EF-3, 120V, 1ø, 1A.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

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SHEET NO.
EL101

SATISFACTORY TO:	DATE
ROICC	
SAFETY	
CUSTOMER	
FIRE INSPECTOR	

SATISFACTORY TO:	DATE
DIRECTOR ENGINEERING DIV.	
PWO / OICC	
FACILITIES MAINTENANCE OFFICER	

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	CA				
DRWN	JEF				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

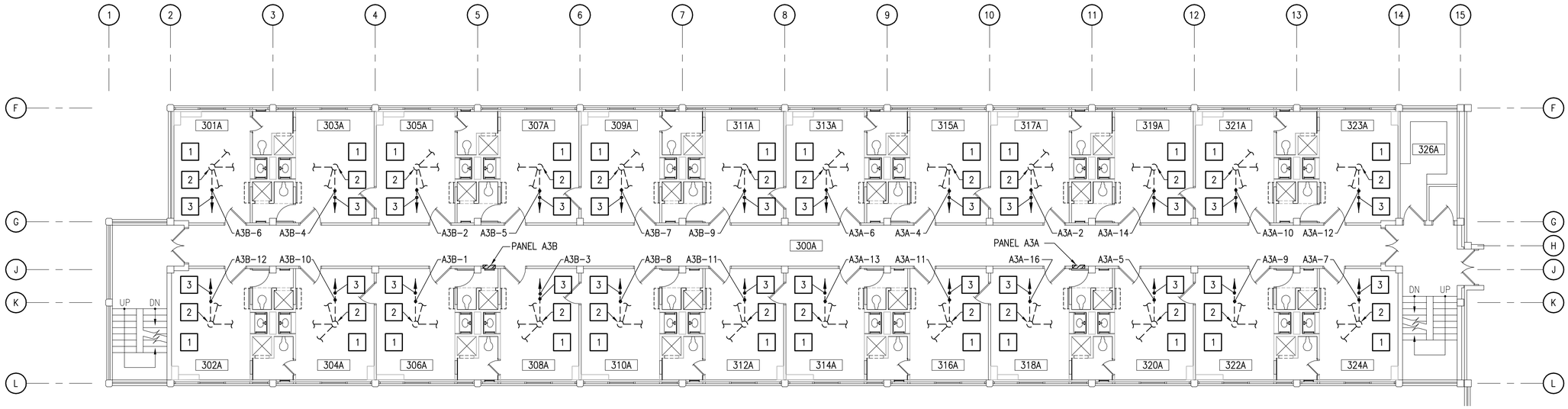
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING – LIGHTING AND POWER

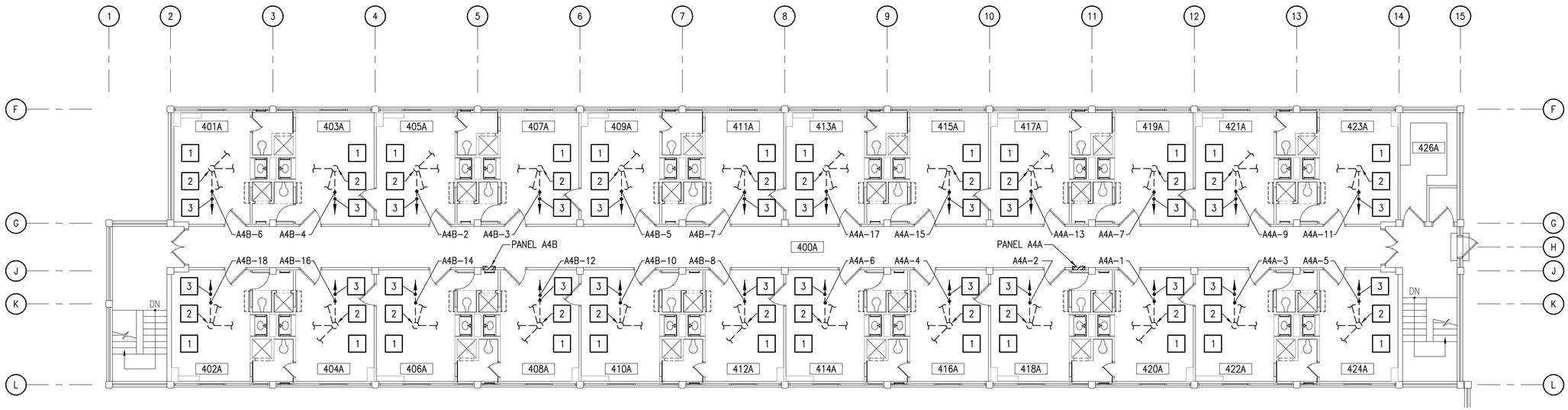
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183059

SCALE: NOTED SPEC. 21-02-1015 SHEET 75 OF 106



THIRD FLOOR PLAN – "A" WING – LIGHTING

SCALE: 1/8" = 1'-0"



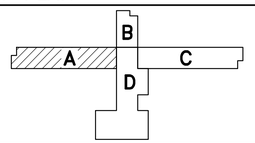
FOURTH FLOOR PLAN – "A" WING – LIGHTING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SINGLE QUARTERS PLAN – LIGHTING AND POWER", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SINGLE PLAN.
3. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

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JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

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SHEET NO.
EL102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

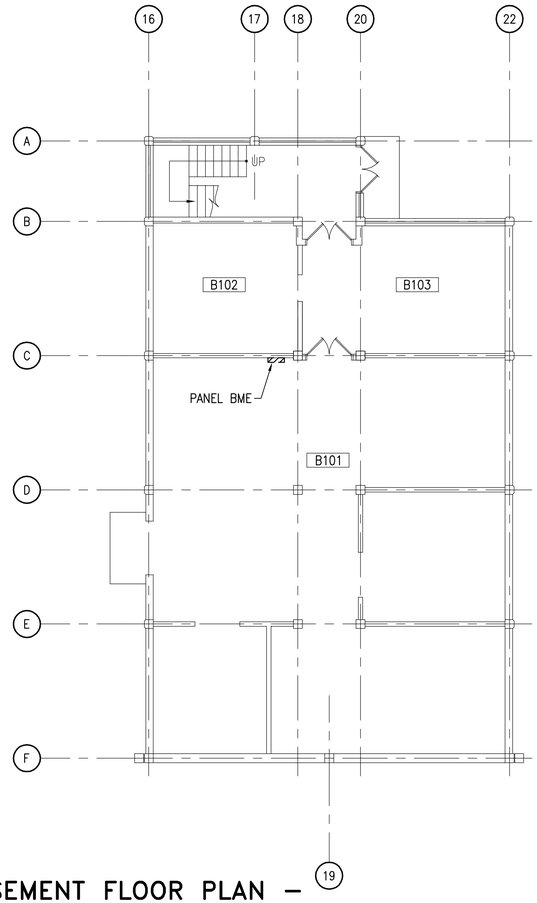
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING LIGHTING

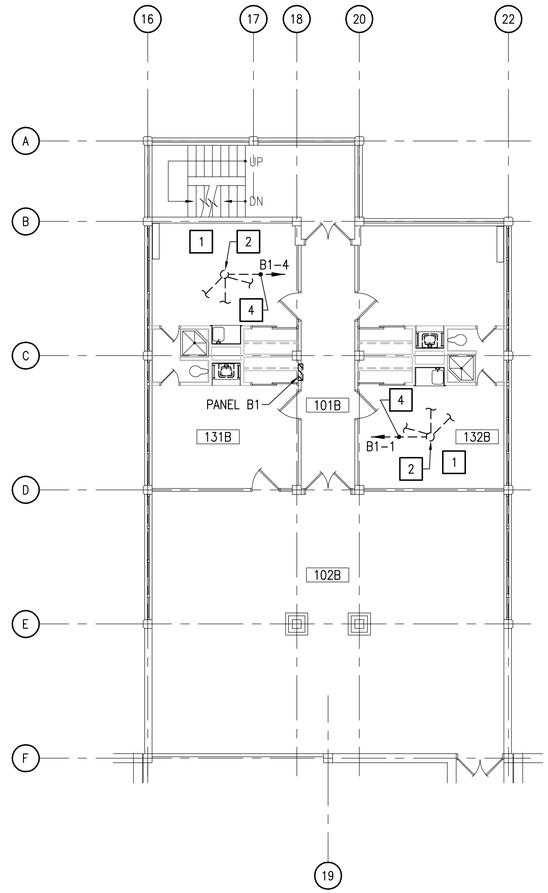
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183060

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 76 OF 106



BASEMENT FLOOR PLAN – "B" WING 3

SCALE: 1/8" = 1'–0"



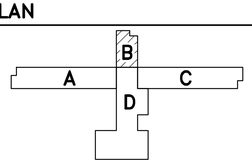
FIRST FLOOR PLAN – "B" WING – LIGHTING

SCALE: 1/8" = 1'–0"

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – LIGHTING", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE PLAN.
3. NO WORK, THIS FLOOR, THIS WING.
4. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
EL103

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

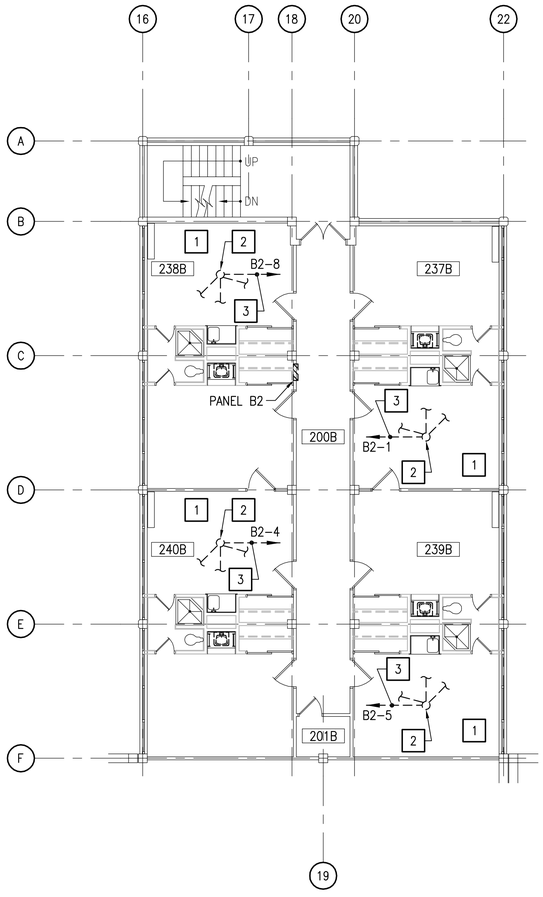
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING LIGHTING

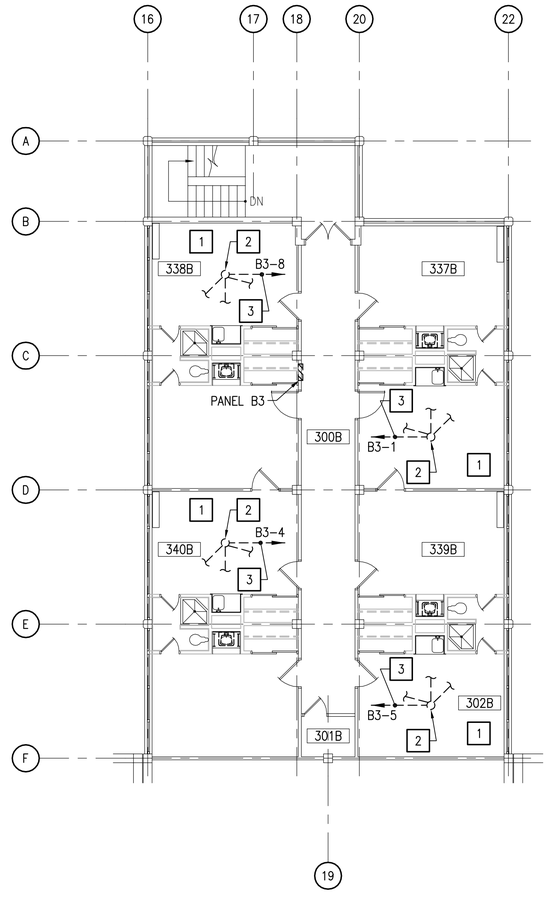
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183061

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 77 OF 106



SECOND FLOOR PLAN – "B" WING – LIGHTING

SCALE: 1/8" = 1'-0"



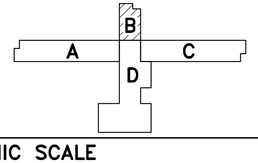
THIRD FLOOR PLAN – "B" WING – LIGHTING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – LIGHTING", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE PLAN.
3. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

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SHEET NO.
EL104

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

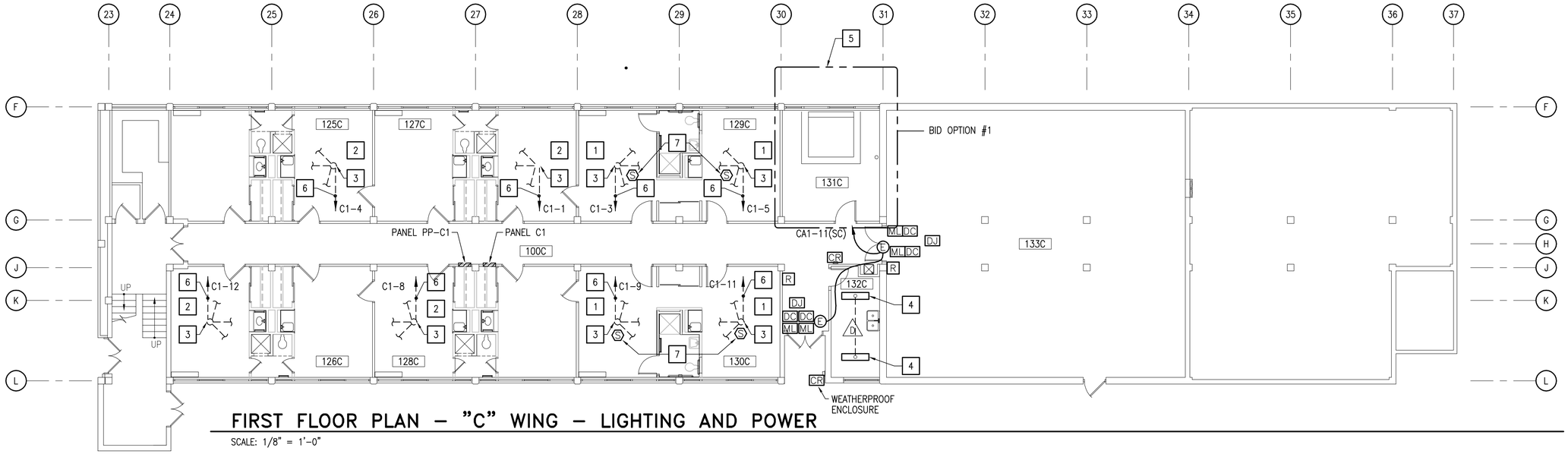
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING LIGHTING

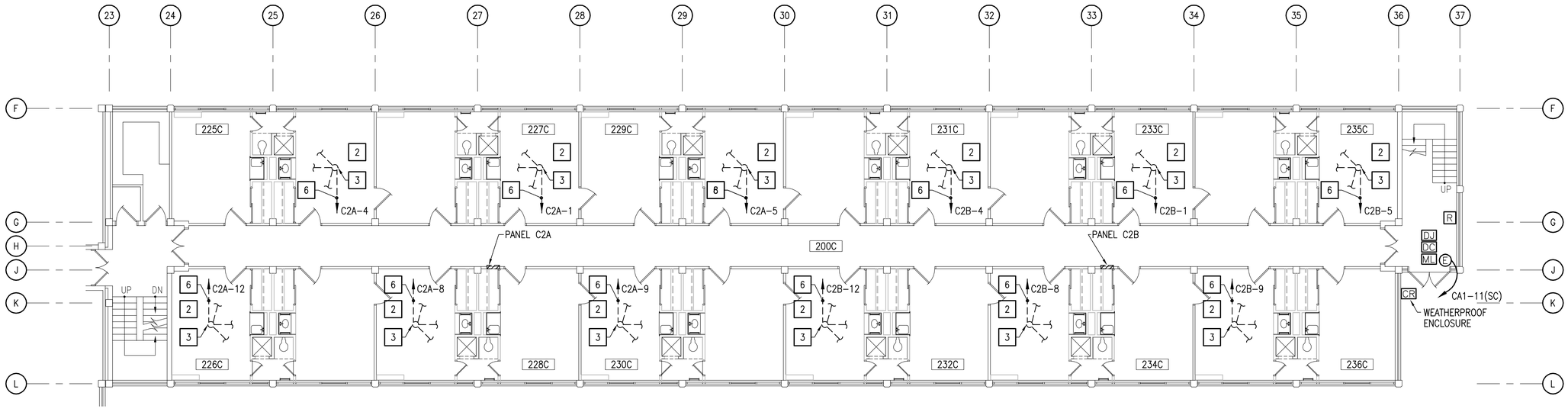
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183062

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 78 OF 106



FIRST FLOOR PLAN – "C" WING – LIGHTING AND POWER

SCALE: 1/8" = 1'-0"



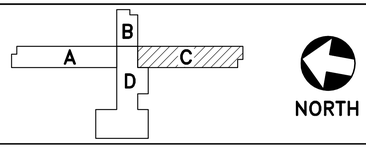
SECOND FLOOR PLAN – "C" WING – LIGHTING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. SEE "TYPICAL ACCESSIBLE SUITE PLAN – LIGHTING AND POWER", SHEET EL402, FOR CONTINUATION OF WORK THIS ROOM.
2. SEE "TYPICAL SUITE PLAN – LIGHTING", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
3. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL ACCESSIBLE SUITE/ SUITE PLAN.
4. PROVIDE CONNECTION TO EXISTING CIRCUITRY.
5. SEE ENLARGED PLANS – ROOM 131C, SHEET EL401 FOR WORK IN THIS AREA.
6. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED.
7. NEW SMOKE DETECTOR LOCATION. EXTEND EXISTING CIRCUITRY TO NEW SMOKE DETECTOR.
8. ELECTRICAL CONNECTION FOR DOOR OPERATOR, 120V, 1ø.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

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Architecture & Engineering

SHEET NO.
EL105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO: DATE
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

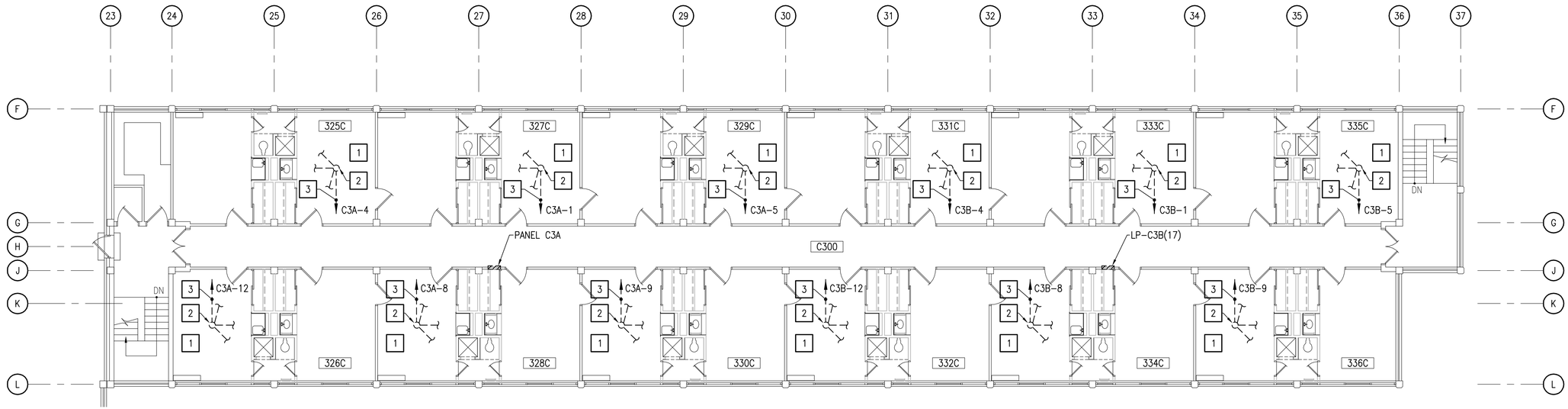
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING – LIGHTING AND POWER

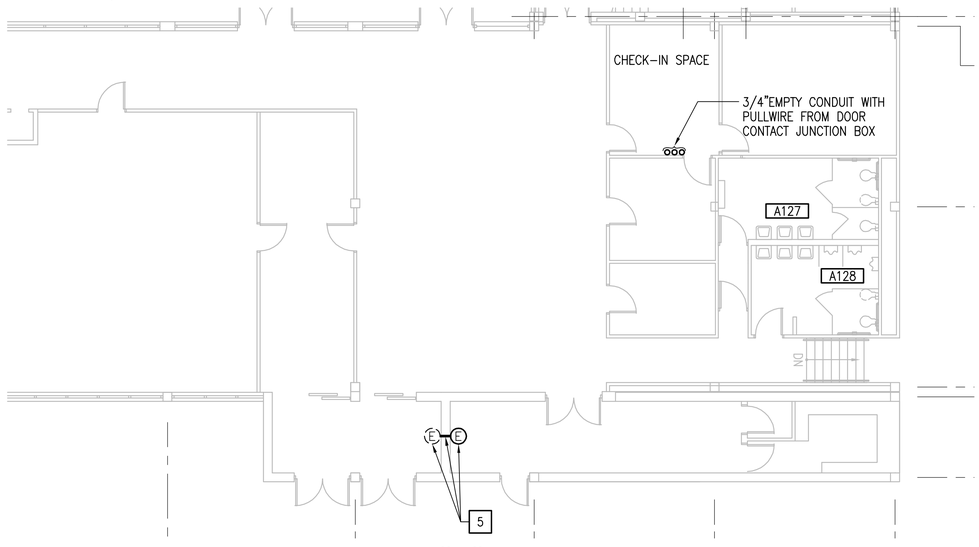
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183063

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 79 OF 106



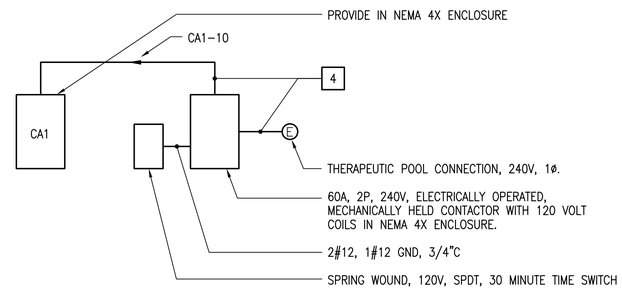
THIRD FLOOR PLAN – "C" WING – LIGHTING

SCALE: 1/8" = 1'-0"



PARTIAL FIRST FLOOR PLAN – "D" WING – POWER

SCALE: 1/8" = 1'-0"



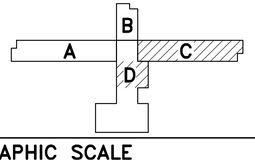
THERAPEUTIC POOL TIME SWITCH DETAIL 6

NO SCALE

KEYNOTES

1. SEE "TYPICAL SUITE PLAN – LIGHTING", SHEET EL401, FOR CONTINUATION OF WORK THIS ROOM.
2. DUPLICATE LIGHTING FIXTURE INDICATED ON TYPICAL SUITE PLAN.
3. EXISTING CIRCUITRY WITH HOMERUN AS INDICATED.
4. 2#6, 1#6N, 1#10 GND, 1"C
5. RELOCATE ELECTRICAL CONNECTION FOR FIRE ALARM CONTROL PANEL AND TRANSMITTER TO NEW LOCATION. CORE DRILL WALL AND EXTEND 3#12, 3/4"C.
6. BID OPTION #1.

KEY PLAN



NORTH

GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

1/4" = 1'-0" 0 1' 5' 10' 15'

SEAL

COMMONWEALTH OF VIRGINIA
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SHEET NO.
EL106

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

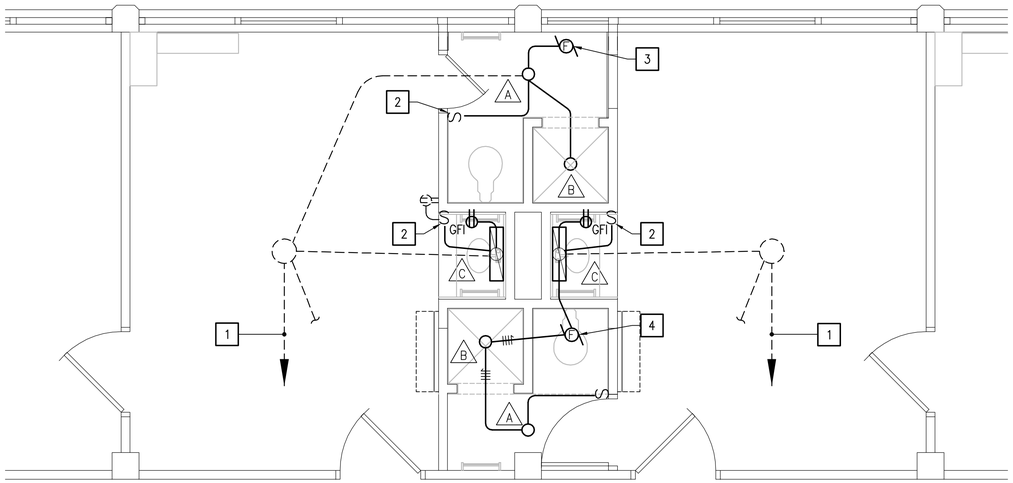
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING LIGHTING

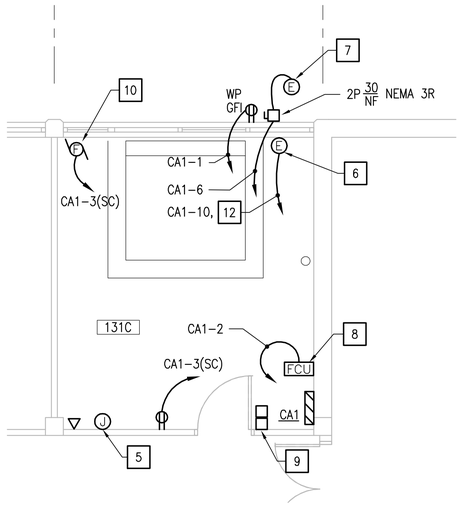
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183064

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 80 OF 106



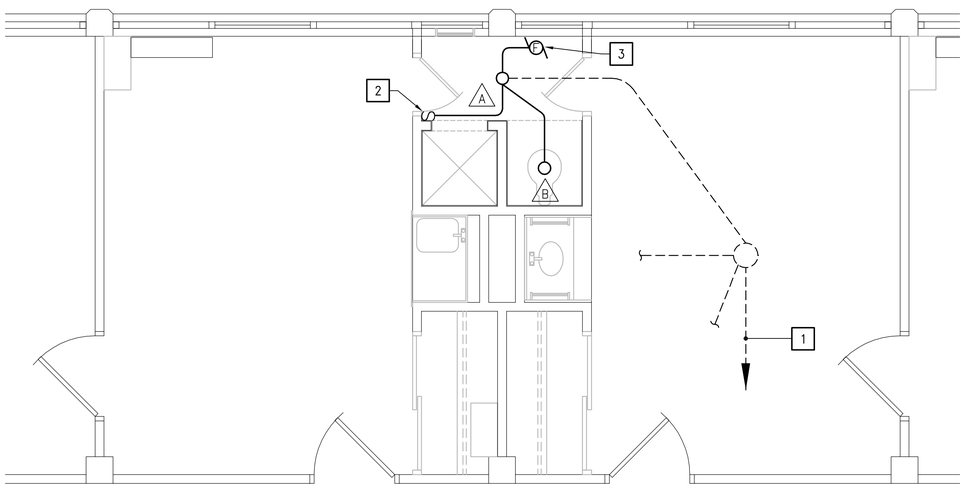
TYPICAL SINGLE QUARTERS PLAN – LIGHTING AND POWER

SCALE: 3/8" = 1'–0"



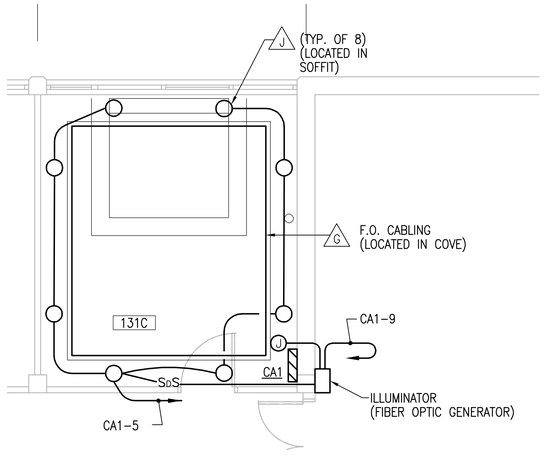
ENLARGED PLAN – POWER – ROOM 131C [11]

SCALE: 1/4" = 1'–0"



TYPICAL SUITE PLAN – LIGHTING

SCALE: 3/8" = 1'–0"



ENLARGED PLAN – LIGHTING – ROOM 131C [11]

SCALE: 1/4" = 1'–0"

KEYNOTES

1. EXISTING HOMERUN (CIRCUITRY). SEE FLOOR PLANS FOR CIRCUIT NUMBERS.
2. MOUNT SWITCH IN EXISTING JUNCTION BOX LOCATION.
3. EF–1, 18W, 120V, 1ø.
4. EF–4, 21W, 120V, 1ø.
5. CABLE TV JUNCTION BOX.
6. HOT TUB CONNECTION, 208V, 1ø, 36A.
7. ACCU–2, 208V, 1ø, 12.4A.
8. FCU–2, 208V, 1ø, 8.3A.
9. CONTACTOR AND TIME SWITCH. SEE "THERAPEUTIC POOL TIME SWITCH DETAIL", SHEET EL106 FOR CONTINUATION OF WORK.
10. EF–2, 120V, 1ø.
11. BID OPTION #1.
12. 2#6, 1#6N, 1#10GND, 1"C.

GRAPHIC SCALE

3/8" = 1'–0" 0 1' 2' 3' 4' 5' 10'

1/4" = 1'–0" 0 1' 5' 10' 15'

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Architecture & Engineering

SHEET NO.
EL401

SEAL
COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

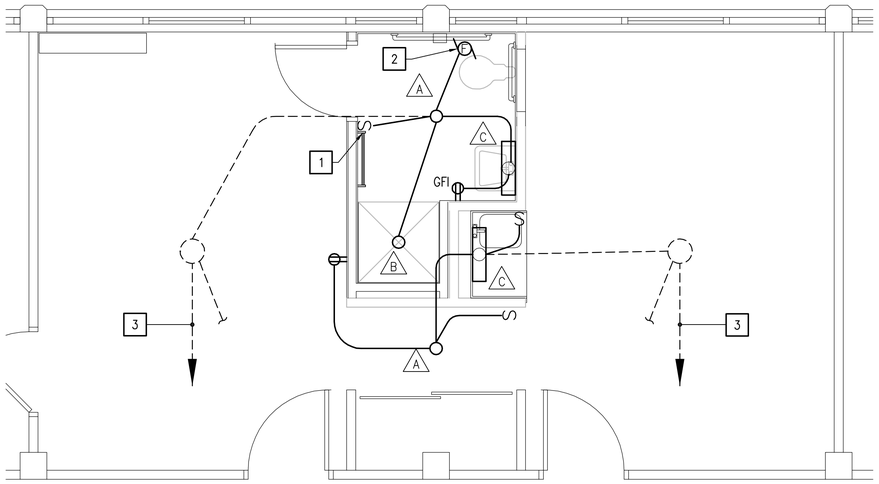
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TYPICAL MODULE PLANS – LIGHTING AND POWER

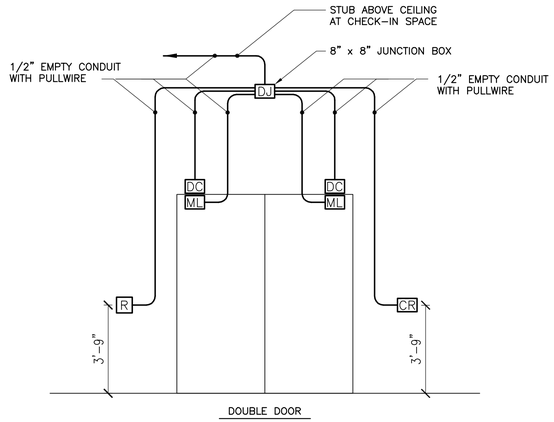
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183065

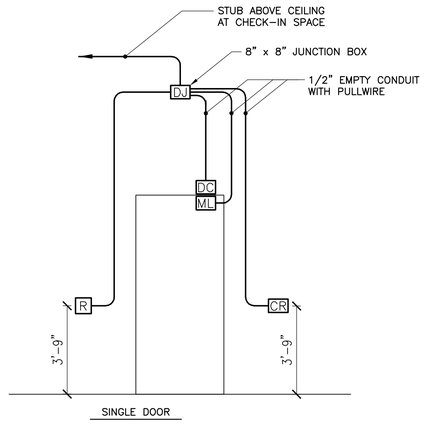
SCALE: NOTED | SPEC. 21–02–1015 | SHEET 81 OF 106



TYPICAL ACCESSIBLE SUITE PLAN – LIGHTING AND POWER

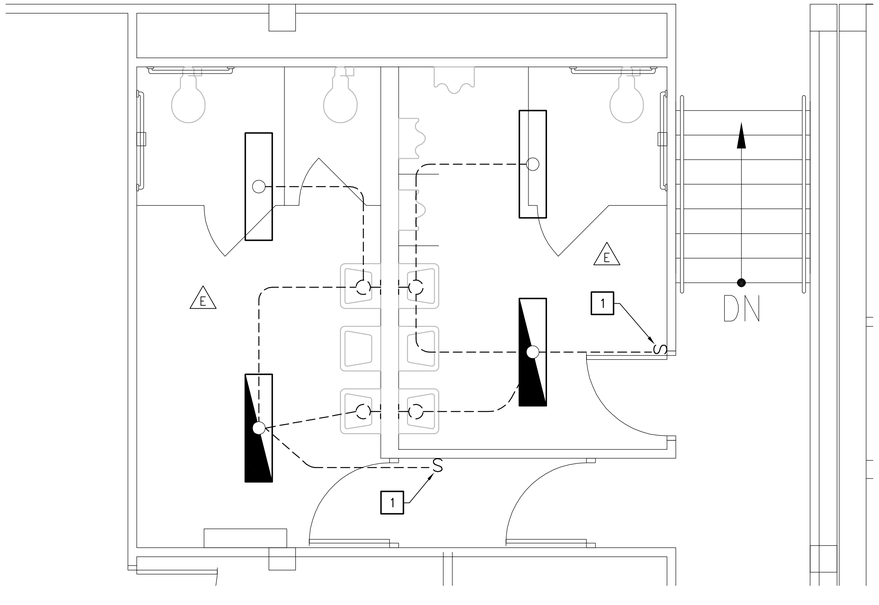
SCALE: 3/8" = 1'–0"





CARD READER DETAIL

NO SCALE



TOILET PLAN 'D' WING – LIGHTING 4

SCALE: 3/8" = 1'–0"

KEYNOTES

1. MOUNT SWITCH IN EXISTING JUNCTION BOX LOCATION.
2. EF–1, 18W, 120V, 1ø.
3. EXISTING HOMERUN (CIRCUITRY). SEE FLOOR PLANS FOR CIRCUIT NUMBERS.

GRAPHIC SCALE

3/8" = 1'–0" 0 1' 2' 3' 4' 5' 10'

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Architecture & Engineering

SHEET NO.
EL402

SEAL
COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DES	CA				
DRWN	JEF				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

TYPICAL ACCESSIBLE SUITE
PLAN – LIGHTING AND POWER

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183066

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 82 OF 106

LUMINAIRE REQUIREMENTS

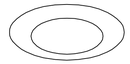
1. ALUMINUM HOUSING WITH MATTE BLACK FINISH.
2. ACRYLIC OPAL GLOBE.
3. PROVIDE SPRING STEEL CLIPS, SET SCREWS OR TORSION SPRINGS TO KEEP GLOBE IN PLACE.
4. PROVIDE DAMP LABEL WHEN INDICATED.
5. PROVIDE INTERNAL GREEN GROUNDING SCREW.
6. PROVIDE HIGH POWER FACTOR (≥ .9) ELECTROMAGNETIC BALLAST.
7. PROVIDE FLUORESCENT LAMPS AS INDICATED, WITH LUMINAIRE MAXIMUM SIZE AS FOLLOWS:

TYPE	LAMP WATTAGE	LUMINAIRE DEPTH ±	LUMINAIRE DIAMETER ±
A	19 TO 22	4"	11"
B	32 OR 22+32	4"	14"
C	40 OR 32+40	5"	20"
D	2–F13/T4 TWIN TUBE COMPACT FLUORESCENT	5"	18"

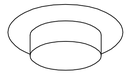
ROUND SURFACE FLUORESCENT

SKETCH DATE NOVEMBER 1995 | STYLE NL–13

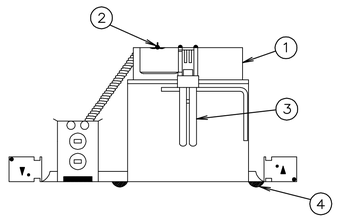
A



TYPE A FLAT GLASS DIFFUSER



TYPE B DROP OPAL ACRYLIC SHATTER RESISTANT DIFFUSER



LUMINAIRE REQUIREMENTS

1. PAINTED STEEL HOUSING – APPROX. 8" DIA. X 8" HIGH. PROVIDE INTERNAL GREEN GROUNDING SCREW.
2. HIGH POWER FACTOR (≥ .9) ELECTROMAGNETIC BALLAST.
3. F13/T4 DOUBLE TWIN TUBE COMPACT FLUORESCENT LAMP.
4. FACE TRIM – SATIN ALUMINUM OR MATTE WHITE ENAMEL (GASKETED) AS INDICATED.
5. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATIONS.
6. DIFFUSER 8" O.D. ± 1".

RECESSED SHOWER LIGHT

SKETCH DATE NOVEMBER 1995 | STYLE NL–56

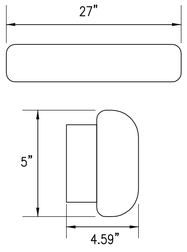
B

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	SKETCH NO. & TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
A	NL–13, TYPE B	2–13W DTT	120	SURFACE CEILING	1
B	NL–56, TYPE B	2–13W DTT	120	RECESSED CEILING	2
C	SEE DETAIL, THIS SHEET	2–20W	120	WALL MOUNTED, TOP 2" FROM CEILING	
D	NL–02, TYPE B	2–T8–32W	120	SURFACE CEILING	
E	NL–02, TYPE B	2–T8–32W	120	PENDANT 8' AFF	
F	NL–08, TYPE B	2–T8–32W	120	PENDANT 8' AFF	3
G	SEE DETAIL, THIS SHEET	1–150W MH	120	SURFACE, COVE	
H	NL–03, TYPE C	2–T8–32W	120	RECESSED CEILING	
J	SEE DETAIL, THIS SHEET	1–26W DTT	120	RECESSED, SOFFIT	

LIGHTING FIXTURE SCHEDULE NOTES

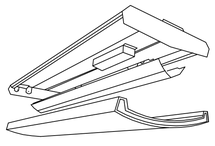
1. PROVIDE DAMP LABEL (LISTING).
2. PROVIDE MATTE WHITE ENAMEL FACE TRIM.
3. PROVIDE CIRCUITRY/CONDUIT/BOXES SUITABLE FOR WET LOCATIONS.



NOTES
1. DIE–FORMED HEAVY GAUGE STEEL HOUSING.
2. BAKED ENAMEL OVER RUST INHIBITING PHOSPHATE FINISH.
3. FLUORESCENT WIRED FOR 120 VOLT/60 HERTZ AC OPERATION, U. L. LISTED. THERMALLY PROTECTED, CLASS P, HIGH POWER FACTOR, SOUND RATED A, FULL LIGHT ENERGY SAVING BALLAST.

LIGHTING FIXTURE TYPE △C DETAIL

NO SCALE



LUMINAIRE REQUIREMENTS

1. 0.026" MIN. THICKNESS FORMED STEEL HOUSING. CHEMICAL TREATMENT FOR RUST PREVENTION. BAKED WHITE ENAMEL FINISH. 85% MIN. REFLECTANCE (INTERIOR). ENTIRE HOUSING SHALL BE PAINTED WHITE. HOUSING SHALL NOT DEFLECT MORE THAN THE FOLLOWING WHEN LIFTED BY ONE CORNER:

TYPE:	A	B	C
	1/2"	1"	2"

2. SECURE HOUSING ENDS BY RIVETS OR SCREWS. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
3. OVERALL LUMINAIRE NOMINAL DIMENSIONS (± 3/4") SHALL BE:

TYPE	LENGTH	WIDTH	DEPTH
A	48"	7"	4 1/2"
B	48"	10"	3 1/2"
C	48"	15"	3 1/2"

4. LENS SHALL BE CLEAR EXTRUDED PRISMATIC 100% ACRYLIC HAVING A MINIMUM OVERALL (BOTTOM OF LENS) THICKNESS OF 0.10 INCHES WITH A MAXIMUM PRISM PENETRATION DEPTH OF 0.07 INCHES (0.055 INCH MINIMUM OVERALL SIDE THICKNESS) AND SONICALLY WELDED END PLATES TO FORM A SINGLE PIECE, 5–SIDED BASKET. SNAP ON ENDS NOT ACCEPTABLE.
5. LENS SHALL HINGE ALONG ENTIRE LENGTH OF FIXTURE (LIFT AND SHIFT TYPE). LENS SHALL BE CAPABLE OF HINGING FROM BOTH SIDES OF FIXTURE.
6. BALLAST: HIGH POWER FACTOR (≥ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP–ON BRACKET OR 2 SCREWS – ONE AT EACH END.
7. PHOTOMETRICS: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCES: CEILING = 80% WALL = 50% FLOOR = 20%

ROOM CAVITY RATIO		TYPE A	TYPE B	TYPE C
1	CU =	83	77	78
2		73	68	68
3		65	60	61
4		57	54	54

8. MINIMUM SPACING CRITERIA: 1.3

TYPE A – 1 F32/T8 LAMP
TYPE B – 2 F32/T8 LAMPS
TYPE C – 4 F32/T8 LAMPS

SURFACE MOUNTED WRAP–AROUND LUMINAIRE FOR STANDARD OFFICE AND OTHER TYPE SPACES

SKETCH DATE NOVEMBER 1995 | STYLE NL–2

D , E

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
EL601

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO:
FIRE INSPECTOR

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

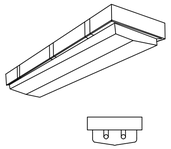
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LIGHTING FIXTURE SCHEDULE AND DETAILS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477–02–C–1015	3183067

SCALE: NOTED | SPEC. 21–02–1015 | SHEET 83 OF 106



LUMINAIRE REQUIREMENTS

1. MOLDED 100% ACRYLIC DIFFUSE LENS (NOT CLEAR) FULLY GASKETED WITH FIBERGLASS OR PLASTIC HOUSING.
2. PROVIDE A MINIMUM OF 6 PLASTIC LATCHES TO SECURE LENS.
3. BALLAST SHALL BE HIGH POWER FACTOR ($\geq$ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH A SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS - ONE AT EACH END.
4. UL LISTED FOR DAMP OR WET LABEL AS INDICATED.
5. OVERALL LUMINAIRE LENGTH SHALL BE 48" NOMINAL.
6. MINIMUM COEFFICIENT OF UTILIZATION (CU) WITH CAVITY REFLECTANCES OF 80% CEILING, 50% WALLS AND 20% FLOOR SHALL BE:

RCR	TYPE A	TYPE B
1	CU = 76	70
2	65	60
3	57	52
4	50	46

7. MINIMUM SPACING CRITERIA: 1.5
8. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.

TYPE A - 1 F32/T8 LAMP.
TYPE B - 2 F32/T8 LAMPS.

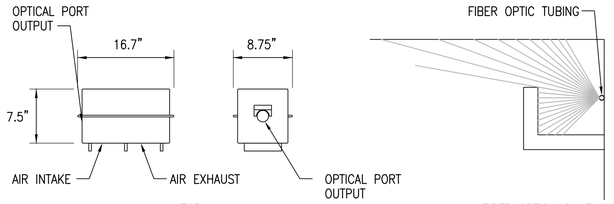
HOUSING OPTIONS

1. UL LISTED FOR DAMP LOCATIONS.
2. UL LISTED FOR WET LOCATIONS.

WET/DAMP LOCATION LUMINAIRES

SKETCH DATE NOVEMBER 1995 | STYLE NL-8

F

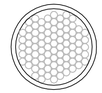


ILLUMINATOR

ILLUMINATOR REQUIREMENTS

1. CASE: OUTDOOR GRADE POLYCARBONATE
2. OPTICAL PORT: ALUMINUM PORT
3. MOUNTING POSITION: HORIZONTAL
4. MOUNTING CLEARANCE: 24" MINIMUM ON EACH SIDE
5. LAMP: 1-150W METAL HALIDE, CRI 85, 6000 HOURS AVG
6. COLOR: SINGLE COLOR, AQUA
7. FAN: 50,000 HOURS MBTF
8. VOLTAGE: 120V, 60HZ
9. 300 FIBER CAPACITY
10. INSTANT ON/OFF CAPACITY
11. U.L. LISTED FOR WET LOCATION

FIBER OPTIC MOUNTING



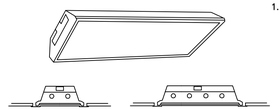
FIBER OPTIC TUBING

FIBER OPTIC TUBING REQUIREMENTS

1. 98 TIGHTLY CABLED FIBERS
2. 7/16" O.D. ROUND
3. CLEAR PVC TUBING
4. MOUNTING: ADHESIVE PER MANUFACTURER RECOMMENDATION

LIGHTING FIXTURE TYPE G DETAIL

NO SCALE



LUMINAIRE REQUIREMENTS

1. HOUSING SHALL BE 0.026" MIN. THICKNESS. HEIGHT SHALL BE 4" MIN. AND SHALL NOT PERMANENTLY DEFORM WHEN LIFTED BY ONE CORNER WITH LENS DOOR IN PLACE NOR WITH LENS DOOR REMOVED. LENS DOOR SHALL NOT OPEN WHEN LUMINAIRE IS LIFTED BY ONE CORNER. LUMINAIRE SHALL HAVE LESS THAN THE FOLLOWING DEFLECTION WHEN LIFTED BY ONE CORNER WITH LENS DOOR REMOVED.

TYPE:	A	B	C, D, & E
	3"	2 1/2"	4"

2. HOUSING SHALL BE CHEMICALLY TREATED FOR RUST PREVENTION AND HAVE BAKED WHITE ENAMEL FINISH 85% MIN. REFLECTANCE (INTERIOR). PAINT ENTIRE HOUSING AND LENS DOOR WHITE, AFTER FABRICATION. HOUSING SHALL HAVE INTERNAL GREEN GROUNDING SCREW.
3. LATCHES SHALL BE A 0.030" MINIMUM THICKNESS STEEL OR 0.015" MINIMUM THICKNESS SPRING STEEL.
4. LENS DOOR SHALL BE 0.023" MINIMUM THICKNESS STEEL, SHALL BE ASSEMBLED WITH SCREWS (FOR LENS REPLACEMENT). PROVIDE LIGHT TIGHT FIT WITHOUT MOVABLE BAFFLES. GASKETING SHALL NOT BE A MEANS OF ACHIEVING LIGHT TIGHT DOOR.
5. LENS SHALL BE 0.156", PATTERN 19 (FOR TYPES A, C, D, E) AND 0.125", PATTERN 12 (FOR TYPE B) PLUS OR MINUS 10% OVERALL (0.09" MAX, PRISM PENETRATION) CLEAR PRISMATIC 100% ACRYLIC.
6. DOOR SHALL BE CAPABLE OF HINGING AND LATCHING FROM EITHER SIDE OF LUMINAIRE. PROVIDE SAFETY TYPE HINGES.
7. BALLAST SHALL BE HIGH POWER FACTOR ($\geq$ .95) INSTANT START CLASS P ELECTRONIC BALLAST WITH SOUND RATING OF "A". SECURE BALLAST TO HOUSING WITH AT LEAST ONE SCREW AND SLIP-ON BRACKET OR 2 SCREWS ONE AT EACH END.
8. PHOTOMETRICS: MINIMUM COEFFICIENT OF UTILIZATION (CU) FOR THE FOLLOWING CAVITY REFLECTANCES: CEILING = 80% WALL = 50% FLOOR = 20%

ROOM CAVITY RATIO	TYPE: CU	A	B	C	D	E
1		72	70	80	79	76
2		64	63	71	70	68
3		58	56	64	63	61
4		52	51	57	56	54
MIN. SPACING CRITERIA		1.2	1.2	1.2	1.2	1.2

9. PROVIDE MOUNTING HARDWARE COMPATIBLE WITH CEILING MATERIAL IN WHICH LUMINAIRE IS TO BE INSTALLED.

TYPE A - 2'X2' 2 F40/T5 LONG TWIN TUBE LAMPS
TYPE B - 1'X4' 2 F32/T8 LAMPS
TYPE C - 2'X4' 2 F32/T8 LAMPS
TYPE D - 2'X4' 3 F32/T8 LAMPS
TYPE E - 2'X4' 4 F32/T8 LAMPS

FLUORESCENT TROFFER LUMINAIRE LENS TYPE

SKETCH DATE NOVEMBER 1995 | STYLE NL-3

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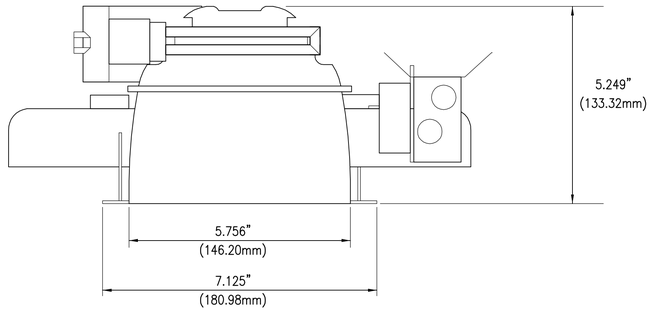

LUMINAIRE REQUIREMENTS

1. STANDARD SELF-FLANGED ALUMINUM REFLECTOR WITH SEMI-SPECULAR/LOW-IRIDESCENT FINISH
2. HIGH POWER FACTOR ($\geq$ .9) ELECTROMAGNETIC BALLAST.
3. F26/T4 DOUBLE TWIN TUBE COMPACT FLUORESCENT LAMP.
4. PAN/PLASTER MOUNTING FRAME - GALVANIZED STEEL
5. FIXTURE SHALL BE UL LISTED FOR WET LOCATIONS.
6. DIFFUSER 5" O.D. ± 1".
7. MINIMUM SPACING CRITERIA 1.6
8. COLOR RENDERING INDEX 82

LIGHTING FIXTURE TYPE J DETAIL

NO SCALE

SEAL
COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

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Architecture & Engineering

SHEET NO.
EL602

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO:
FIRE INSPECTOR

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
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FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LIGHTING FIXTURE DETAILS

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183068

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 84 OF 106

EXISTING PANELBOARD A1B SCHEDULE [1]

200 AMP BUS | 200 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXISTING	8.4			20		1		2		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		3		4		20		8.4		EXISTING
EXIST & NEW LGT/RECEP			7.2	20		5		6		20			7.2	EXIST & NEW LGT/RECEP
EXISTING FAN COIL	5.0			20		7		8		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		9		10		20		8.4		EXISTING
EXISTING			8.4	20		11		12		20			5.0	EXISTING
EXISTING FAN COIL	5.0			20		13		14		20	8.4			EXISTING
EXISTING		7.0		20		15		16		20		3.0		EXISTING
EXISTING			7.0	20		17		18						SPACE ONLY
[2] FCU- 1	8.3			20	12	19		20						SPACE ONLY
		8.3		20				22				9.6		
[2] ACCU-1			10.5		12	23				20			9.6	EXISTING A/C RECEP
	10.5										9.6			
[2] REC RM 119A, 120A		9.6		20	12	27		28				9.6		
[2] REC EXTERIOR			1.5	20	12	29				20			9.6	EXISTING A/C RECEP
	9.6					31					9.6			
EXISTING		9.6		20				34				9.6		
			9.6							20			9.6	EXISTING A/C RECEP
SPACE ONLY						37								
SPACE ONLY						39		40						SPACE ONLY
SPACE ONLY						41		42						SPACE ONLY
SUB-TOTAL AMPS	46.8	48.9	44.2								42.0	48.5	41.0	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 88.7 B: 97.4 C: 85.2

EXISTING PANELBOARD A4B SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXISTING	5.0			20		1		2		20	8.4			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		9.1		20		3		4		20		8.4		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.5	20		5		6		20			8.4	EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP	9.1			20		7		8		20	8.4			EXIST & NEW LGT/RECEP
EXISTING		5.0		20		9		10		20		8.4		EXIST & NEW LGT/RECEP
EXISTING			5.0	20		11		12		20			8.4	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	8.4			EXIST & NEW LGT/RECEP
EXISTING		5.0		20		15		16		20		8.4		EXIST & NEW LGT/RECEP
EXISTING			5.0	20		17		18		20			8.4	EXIST & NEW LGT/RECEP
	9.6					19		20			9.6			
EXISTING A/C RECEP		9.6		20						20		9.6		EXISTING A/C RECEP
			9.6										9.6	
	5.0					25		26			9.6			
EXISTING		5.0		20						20		9.6		EXISTING A/C RECEP
			5.0										9.6	
	9.6					31		32			5.0			
EXISTING		9.6		20						20		5.0		EXISTING
			9.6										5.0	
	9.6					37		38			9.6			
EXISTING		9.6		20						20		9.6		EXISTING A/C RECEP
			9.6										9.6	
SUB-TOTAL AMPS	52.9	52.9	52.3								58.9	58.9	58.9	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 111.8 B: 111.8 C: 111.2

EXISTING PANELBOARD A2B SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	7.2			20		1		2		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		3		4		20		7.2		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			7.2	20		5		6		20			8.4	EXISTING
EXIST & NEW LGT/RECEP	9.1			20		7		8		20	8.5			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		8.5		20		9		10		20		9.1		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			9.1	20		11		12		20			8.5	EXIST & NEW LGT/RECEP
EXISTING(FA)	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16		20		5.0		EXISTING
EXISTING			5.0	20		17		18		20			5.0	EXISTING
	5.0					19		20			9.6			
EXISTING		5.0		20						20		9.6		EXISTING A/C RECEP
			9.6										9.6	
	9.6					25		26			9.6			
EXISTING A/C RECEP		9.6		20						20		9.6		EXISTING A/C RECEP
			9.6										9.6	
	9.6					31		30			9.6			
EXISTING A/C RECEP		9.6		20						20		9.6		EXISTING
			9.6										9.6	
						37		38						
EXISTING SPARE				20						20				EXISTING SPARE
SUB-TOTAL AMPS	45.5	44.9	50.1								49.5	50.1	50.7	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 95.0 B: 95.0 C: 100.8

EXISTING PANELBOARD A1A SCHEDULE [1]

200 AMP BUS | 200 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	7.2			20		1		2		20	5.0			EXISTING
EXISTING		8.4		20		3		4		20		5.0		EXISTING
EXISTING			8.4	20		5		6		20			7.0	EXISTING
EXISTING	5.0			20		7		8	12	20	9.0			LGT RM. 121A,118A
EXISTING		4.0		20		9		10	12	20		7.3		LGT & EF-2, RM 119, 120A
EXISTING			5.0	20		11		12	12	20			6.0	REC RM 121A
EXISTING	5.0			20		13		14		30	14.0			EXISTING
EXISTING		5.0		20		15						14.0		
EXISTING			5.0	20		17		18					9.6	
EXISTING DRYER	25.0			50		19				20	9.6			EXISTING A/C RECEP
		25.0										9.6		
			9.6			23		24					9.6	
EXISTING A/C RECEP	9.6			20						20	9.6			EXISTING A/C RECEP
		9.6										9.6		
			9.6			29		30					9.6	
EXISTING A/C RECEP	9.6			20						50	9.6			EXISTING A/C RECEP
		9.6										9.6		
SPACE ONLY			9.6			35		36						SPACE ONLY
SPACE ONLY						37		38						SPACE ONLY
SPACE ONLY						39		40						SPACE ONLY
SPACE ONLY						41		42						SPACE ONLY
SUB-TOTAL AMPS	61.4	61.6	47.2								56.8	55.1	41.8	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 118.2 B: 116.7 C: 89.0

EXISTING PANELBOARD A3B SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	8.5			20		1		2		20	8.5			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		9.1		20		3		4		20		9.1		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.5	20		5		6		20			8.5	EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP	8.5			20		7		8		20	5.0			EXISTING
EXIST & NEW LGT/RECEP		9.1		20		9		10		20		9.1		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			9.1	20		11		12		20			8.5	EXIST & NEW LGT/RECEP
EXISTING FA				20		13		14		20	5.0			EXISTING
EXISTING SPARE				20		15		16		20				EXISTING SPARE
EXISTING SPARE				20		17		18		20				EXISTING SPARE
	9.6					19		20						
EXISTING A/C RECEP		9.6		20		21				20				EXISTING SPARE
			9.6											
	9.6							26			9.6			
EXISTING A/C RECEP		9.6		20		27				20		9.6		EXISTING A/C RECEP
			9.6										9.6	
	5.0							32			9.6			
EXISTING		5.0		20		33				20		9.6		EXISTING A/C RECEP
			5.0										9.6	
								38			9.6			
EXISTING SPARE				20		39				20		9.6		EXISTING A/C RECEP
						41							9.6	
SUB-TOTAL AMPS	41.2	42.4	41.8								47.3	47.0	45.8	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 88.5 B: 89.4 C: 87.6

NOTES

1. PANELBOARD SCHEDULES AND INFORMATION INDICATED ARE SHOWN BASED ON EXISTING PLANS AND NON-DESTRUCTIVE FIELD INVESTIGATION.
2. PROVIDE NEW CIRCUIT BREAKER AS INDICATED.

SEAL
COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK·NEXSEN
Architecture & Engineering

SHEET NO. EP601

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC DATE
SATISFACTORY TO: SAFETY DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. DATE
SATISFACTORY TO: PWO / OICC DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

PANELBOARD SCHEDULES

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183069

SCALE: NOTED SPEC. 21-02-1015 SHEET 85 OF 106

EXISTING PANELBOARD A2A SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	7.2			20		1		2		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		3		4		20		7.2		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			7.2	20		5		6		20			7.2	EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP	8.5			20		7		8		20	8.5			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		9		10		20		9.1		EXIST & NEW LGT/RECEP
EXISTING			8.4	20		11		12		20			8.5	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	5.0			EXISTING FAN COIL
EXISTING		8.4		20		15		16		20		5.0		EXISTING FAN COIL
EXISTING			8.4	20		17		18		20			5.0	EXISTING FAN COIL
EXISTING	8.4			20		19		20		20	5.0			EXISTING FAN COIL
EXISTING A/C RECEP		9.6		20		21		22		20		9.6		EXISTING A/C RECEP
			9.6										9.6	
	9.6										9.6			
EXISTING A/C RECEP		9.6		20		27		28		20		8.0		EXISTING COPY MACHINE
			9.6										8.0	
	9.6										8.0			
EXISTING		5.0		20		33		34		20		9.6		EXISTING
			5.0										9.6	
	5.0										9.6			
						39		40						
						41		42						
SUB-TOTAL AMPS	53.3	47.0	48.1								52.9	48.5	47.9	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS — A: 106.2 B: 95.5 C: 96.0

PANELBOARD B1 SCHEDULE [1]

200 AMP BUS | 200 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	7.2			20		1		2		20	5.0			EXISTING
EXISTING		8.7		20		3		4		20		7.2		EXIST & NEW LGT/RECEP
EXISTING			6.4	20		5		6		20			6.4	EXISTING
EXISTING	6.4			20		7		8		20	6.4			EXISTING
EXISTING		5.0		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			5.0	EXISTING
EXISTING	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16		30		5.0		EXISTING
EXISTING			14.0	20		17		18		20			14.0	EXISTING
	14.0										14.0			
		9.6				21		22		20		5.0		EXISTING
EXISTING A/C RECEP			9.6	20				24		20			5.0	EXISTING
	9.6							26		20	5.0			EXISTING
		9.6				27		28				9.6		
EXISTING A/C RECEP			9.6	20						20			9.6	EXISTING A/C RECEP
	9.6										9.6			
						33		34						
						35		36						
						37		38						
						39		40						
						41		42						
SUB-TOTAL AMPS	51.8	37.9	44.6								45.0	31.8	40.0	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS — A: 96.8 B: 69.7 C: 84.6

EXISTING PANELBOARD A3A SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXISTING	5.0			20		1		2		20	8.5			EXIST & NEW LGT/RECEP
EXISTING		8.4		20		3		4		20		9.1		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			9.1	20		5		6		20			8.5	EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP	9.1			20		7		8		20				EXISTING
EXIST & NEW LGT/RECEP		8.5		20		9		10		20		8.5		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			9.5	20		11		12		20			9.1	EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP	8.5			20		13		14		20	8.5			EXIST & NEW LGT/RECEP
EXISTING SPARE				20		15		16		20		8.5		EXIST & NEW LGT/RECEP
EXISTING SPARE				20		17		18		20			5.0	EXISTING
EXISTING SPARE				20		19		20		20	5.0			EXISTING
SPACE						21		22						SPACE
			5.0										9.6	
EXISTING	5.0			20		25				20	9.6			EXISTING A/C RECEP
		5.0						28				9.6		
			9.6										9.6	
EXISTING A/C RECEP	9.6			20		31				20	9.6			EXISTING A/C RECEP
		9.6						34				9.6		
SPARE				20		37				20				EXISTING
								40						
SPACE						41		42						
SUB-TOTAL AMPS	37.2	31.5	33.2								41.2	45.3	41.8	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS — A: 78.4 B: 76.8 C: 75.0

EXISTING PANELBOARD B2 SCHEDULE [1]

100 AMP BUS | 100 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	8.4			20		1		2		20	5.0			EXISTING
EXISTING		5.0		20		3		4		20		8.4		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.4	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	8.4			EXIST & NEW LGT/RECEP
EXISTING		5.0		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			14.0	EXISTING
EXISTING	5.0			20		13					14.0			
EXISTING		5.0		20		15		16				9.6		
SPACE ONLY				20		17				20			9.6	EXISTING A/C RECEP
	9.6					19					9.6			
EXISTING A/C RECEP		9.6		20				22				9.6		
			9.6							20			9.6	EXISTING A/C RECEP
SPACE ONLY						25					9.6			
SPACE ONLY						27		28						SPACE ONLY
SPACE ONLY						29		30						SPACE ONLY
SUB-TOTAL AMPS	28.0	24.6	23.0								46.6	32.6	38.2	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS — A: 74.5 B: 57.2 C: 61.2

EXISTING PANELBOARD A4A SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	9.1			20		1		2		20	8.5			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		8.5		20		3		4		20		9.1		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.5	20		5		6		20			8.5	EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP	8.5			20		7		8		20	5.0			EXISTING
EXIST & NEW LGT/RECEP		8.5		20		9		10		20		5.0		EXISTING
EXIST & NEW LGT/RECEP			9.1	20		11		12		20			5.0	EXISTING
EXIST & NEW LGT/RECEP	8.5			20		13		14		20	5.0			EXISTING
EXIST & NEW LGT/RECEP		9.1		20		15		16		20		5.0		EXISTING
EXIST & NEW LGT/RECEP			8.5	20		17		18		20			5.0	EXISTING
EXISTING	5.0			20		19		20		20	5.0			EXISTING
EXISTING		5.0				21		22				9.6		
			5.0	20						20			9.6	EXISTING A/C RECEP
	5.0										9.6			
		9.6				27		28				9.6		
EXISTING A/C RECEP			9.6	20						20			9.6	EXISTING A/C RECEP
	9.6										9.6			
						33		34				9.6		
EXISTING				20						20			9.6	EXISTING A/C RECEP
											9.6			
SPACE						39		40						SPACE
SPACE						41		42						SPACE
SUB-TOTAL AMPS	45.7	40.7	40.7								52.3	47.9	47.3	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS — A: 98.0 B: 88.6 C: 88.0

NOTES

[1] PANELBOARD SCHEDULES AND INFORMATION INDICATED ARE SHOWN BASED ON EXISTING PLANS AND NON-DESTRUCTIVE FIELD INVESTIGATION.

SEAL

COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
EP602

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

PANELBOARD SCHEDULES

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183070

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 86 OF 106

EXISTING PANELBOARD B3 SCHEDULE [1]

100 AMP BUS | 100 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	8.4			20		1		2		20	5.0			EXISTING
EXISTING		5.0		20		3		4		20		8.4		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.4	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	8.4			EXIST & NEW LGT/RECEP
EXISTING		5.0		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			14.0	EXISTING
EXISTING	5.0			20		13					14.0			
EXISTING		5.0		20		15		16				9.6		
SPACE ONLY				20		17				20			9.6	EXISTING A/C RECEP
	9.6					19					9.6			
EXISTING A/C RECEP		9.6		20				22				9.6		
			9.6							20			9.6	EXISTING A/C RECEP
SPACE ONLY						25					9.6			
SPACE ONLY						27		28						SPACE ONLY
SPACE ONLY						29		30						SPACE ONLY
SUB-TOTAL AMPS	28.0	24.6	23.0								46.6	32.6	38.2	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 74.5 B: 57.2 C: 61.2

EXISTING PANELBOARD C2A SCHEDULE [1]

200 AMP BUS | 200 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	8.4			20		1		2		20	5.0			EXISTING
EXISTING		5.0		20		3		4		20		8.4		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.4	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	8.4			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		8.4		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			8.4	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16		20		5.0		EXISTING
EXISTING			5.0	20		17		18		20			5.0	EXISTING
EXISTING	5.0			20		19		20		20	5.0			EXISTING
		9.6				21		22				9.6		
EXISTING			9.6	20						20			9.6	EXISTING A/C RECEP
	9.6										9.6			
EXISTING				20		27		28				9.6		
EXISTING				20		29				20			9.6	EXISTING A/C RECEP
EXISTING	5.0			20		31					9.6			
EXISTING		5.0		20		33		34				9.6		
EXISTING			5.0	20		35				20			9.6	EXISTING
EXISTING	5.0			20		37					9.6			
SPACE						39		40						SPACE
SPACE						41		42						SPACE
SUB-TOTAL AMPS	43.0	38.0	38.0								52.2	47.2	47.2	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 95.1 B: 85.1 C: 85.1

EXISTING PANELBOARD PP-C1 SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXISTING FAN COIL	9.6			20		1		2		20	5.0			EXISTING
EXISTING FAN COIL		9.6		20		3		4		20		5.0		EXISTING
EXISTING FAN COIL			9.6	20		5		6		20			5.0	EXISTING
	9.6					7		8			9.6			
EXISTING A/C RECEP		9.6		20						20		9.6		EXISTING A/C RECEP
			9.6										9.6	
	9.6					13		14			9.6			
EXISTING A/C RECEP		9.6		20						20		9.6		EXISTING A/C RECEP
			9.6										9.6	
EXISTING DRYER	14.0			30		19		20		50	14.0			EXISTING DRYER
		14.0				21						14.0		
EXISTING			5.0	20		23		24					9.6	
SPACE						25				50	9.6			EXISTING
SPACE						27						9.6		
SPACE						29		30						SPACE
SPACE						31		32						SPACE
SPACE						33		34						SPACE
SPACE						35		36						SPACE
SPACE						37		38						SPACE
SPACE						39		40						SPACE
SPACE						41		42						SPACE
SUB-TOTAL AMPS	42.8	42.8	33.8								47.8	47.8	33.8	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 90.6 B: 90.6 C: 67.6

EXISTING PANELBOARD C3A SCHEDULE [1]

200 AMP BUS | 200 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	8.4			20		1		2		20	5.0			EXISTING
EXISTING		5.0		20		3		4		20		8.4		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			8.4	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	8.4			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		8.4		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			8.4	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16		20		5.0		EXISTING
EXISTING			5.0	20		17		18		20			5.0	EXISTING
EXISTING	5.0			20		19		20		20	5.0			EXISTING
		9.6				21		22				9.6		
EXISTING A/C RECEP			9.6	20						20			9.6	EXISTING A/C RECEP
	9.6										9.6			
		9.6				27		28				9.6		
EXISTING A/C RECEP			9.6	20						20			9.6	EXISTING A/C RECEP
	9.6										9.6			
		9.6				33		34				9.6		
EXISTING A/C RECEP			9.6	20						20			9.6	EXISTING A/C RECEP
	9.6										9.6			
		9.6				39		40						
			9.6			41		42						
SUB-TOTAL AMPS	52.2	56.8	56.8								52.2	47.2	47.2	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 104.3 B: 103.9 C: 103.9

EXISTING PANELBOARD C1 SCHEDULE [1]

100 AMP BUS | 100 AMP MCB | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXISTING & NEW	8.4			20		1		2		20	5.0			EXISTING
EXIST & NEW LGT/RECEP		7.2		20		3		4		20		7.2		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			7.2	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		9		10		20		5.0		EXISTING
EXIST & NEW LGT/RECEP			7.2	20		11		12		20			7.2	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16						SPACE ONLY
EXISTING			5.0	20		17		18		20			5.0	EXISTING
EXISTING	5.0			20		19		20		20	5.0			EXISTING
EXISTING		5.0		20		21		22		20				EXISTING
			27.7			23		24						
2 PANEL C1A	49.4			70	4			26						
		54.0						28						
						29		30						
						31		32						
						33		34						
						35		36						
						37		38						
						39		40						
						41		42						
SUB-TOTAL AMPS	72.8	78.4	47.1								22.2	12.2	17.2	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 95.0 B: 90.6 C: 64.3

NOTES

1. PANELBOARD SCHEDULES AND INFORMATION INDICATED ARE SHOWN BASED ON EXISTING PLANS AND NON-DESTRUCTIVE FIELD INVESTIGATION.
2. PROVIDE NEW CIRCUIT BREAKER AS INDICATED.

SEAL
COMMONWEALTH OF VIRGINIA
JAMES R. WALLS
No. 6769
PROFESSIONAL ENGINEER

CLARK·NEXSEN
Architecture & Engineering

SHEET NO. EP603

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

PANELBOARD SCHEDULES

SATISFACTORY TO: ROICC DATE
SATISFACTORY TO: SAFETY DATE
SATISFACTORY TO: CUSTOMER DATE
SATISFACTORY TO: FIRE INSPECTOR DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. DATE
SATISFACTORY TO: PWO / OICC DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER DATE

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183071

SCALE: NOTED SPEC. 21-02-1015 SHEET 87 OF 106

EXISTING PANELBOARD C2B SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	7.2			20		1		2		20	5.0			EXISTING
EXISTING		5.0		20		3		4		20		7.2		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			7.2	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			7.2	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16		20		5.0		EXISTING FA
EXISTING			5.0	20		17		18		20			5.0	EXISTING
EXISTING	9.6			20		19		20		20	5.0			EXISTING
		9.6						22		20		5.0		EXISTING
			9.6					24		20			5.0	EXISTING
EXISTING	5.0			20		25		26		20	9.6			EXISTING
EXISTING		5.0		20		27						9.6		
EXISTING			5.0	20		29							9.6	
EXISTING	5.0			20		31		32		20				EXISTING
EXISTING		5.0		20		33		34		20				EXISTING
EXISTING			5.0	20		35		36		20				EXISTING
EXISTING A/C RECEP	9.6			20		37		38		20	9.6			EXISTING
		9.6										9.6		
			9.6										9.6	
SUB-TOTAL AMPS	46.4	46.4	46.4								41.4	41.4	41.4	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 87.8 B: 87.8 C: 87.8

EXISTING PANELBOARD C3B SCHEDULE [1]

200 AMP BUS | 200 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
EXIST & NEW LGT/RECEP	7.2			20		1		2		20	5.0			EXISTING
EXISTING		5.0		20		3		4		20		7.2		EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP			7.2	20		5		6		20			5.0	EXISTING
EXISTING	5.0			20		7		8		20	7.2			EXIST & NEW LGT/RECEP
EXIST & NEW LGT/RECEP		7.2		20		9		10		20		5.0		EXISTING
EXISTING			5.0	20		11		12		20			7.2	EXIST & NEW LGT/RECEP
EXISTING	5.0			20		13		14		20	5.0			EXISTING
EXISTING		5.0		20		15		16		20		5.0		EXISTING
EXISTING			5.0	20		17		18		20			5.0	EXISTING
EXISTING A/C RECEP	9.6			20		19		20		20	9.6			EXISTING A/C RECEP
		9.6										9.6		
			9.6										9.6	
EXISTING A/C RECEP	9.6			20		25		26		20	9.6			EXISTING A/C RECEP
		9.6										9.6		
			9.6										9.6	
EXISTING A/C RECEP	9.6			20		31		32		20	9.6			EXISTING A/C RECEP
		9.6										9.6		
			9.6										9.6	
EXISTING A/C RECEP	9.6			20		37		38		20	9.6			EXISTING A/C RECEP
		9.6										9.6		
			9.6										9.6	
SUB-TOTAL AMPS	55.6	55.6	55.6								55.6	55.6	55.6	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 111.2 B: 111.2 C: 111.2

PANELBOARD CA1 SCHEDULE [2]

100 AMP BUS | 100 AMP MLO | 208Y/120 VOLTS | 3 PH, 4 W, SN, | MIN. 10 KAIC | FLUSH MOUNTED

LOAD SERVED	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	BKR TRIP	WIRE SIZE	CKT NO.	PHASE A B C	CKT NO.	WIRE SIZE	BKR TRIP	LOAD AMPS A	LOAD AMPS B	LOAD AMPS C	LOAD SERVED
REC. EXTERIOR	1.5			20	12	1		2	12	15	8.3			FCU-2
EF-2 & REC. 131C		2.5		20	12	3						8.3		
LGT - RM 131C			2.7	20	12	5		6	12	25			12.4	ACCU-2
SPARE				20		7					12.4			
LGT - RM 131C		1.5		20	12	9		10	6	50		36.0		THERAPEUTIC POOL
DOOR CONTROLLER			5.0	20	12	11							36.0	
SUB-TOTAL AMPS	1.5	4.0	7.7								20.7	44.3	48.4	SUB-TOTAL AMPS

TOTAL CONNECTED AMPS A: 22.2 B: 48.3 C: 56.1

NOTES

1. PANELBOARD SCHEDULES AND INFORMATION INDICATED ARE SHOWN BASED ON EXISTING PLANS AND NON-DESTRUCTIVE FIELD INVESTIGATION.
2. NEW PANELBOARD

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SHEET NO.
EP604

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

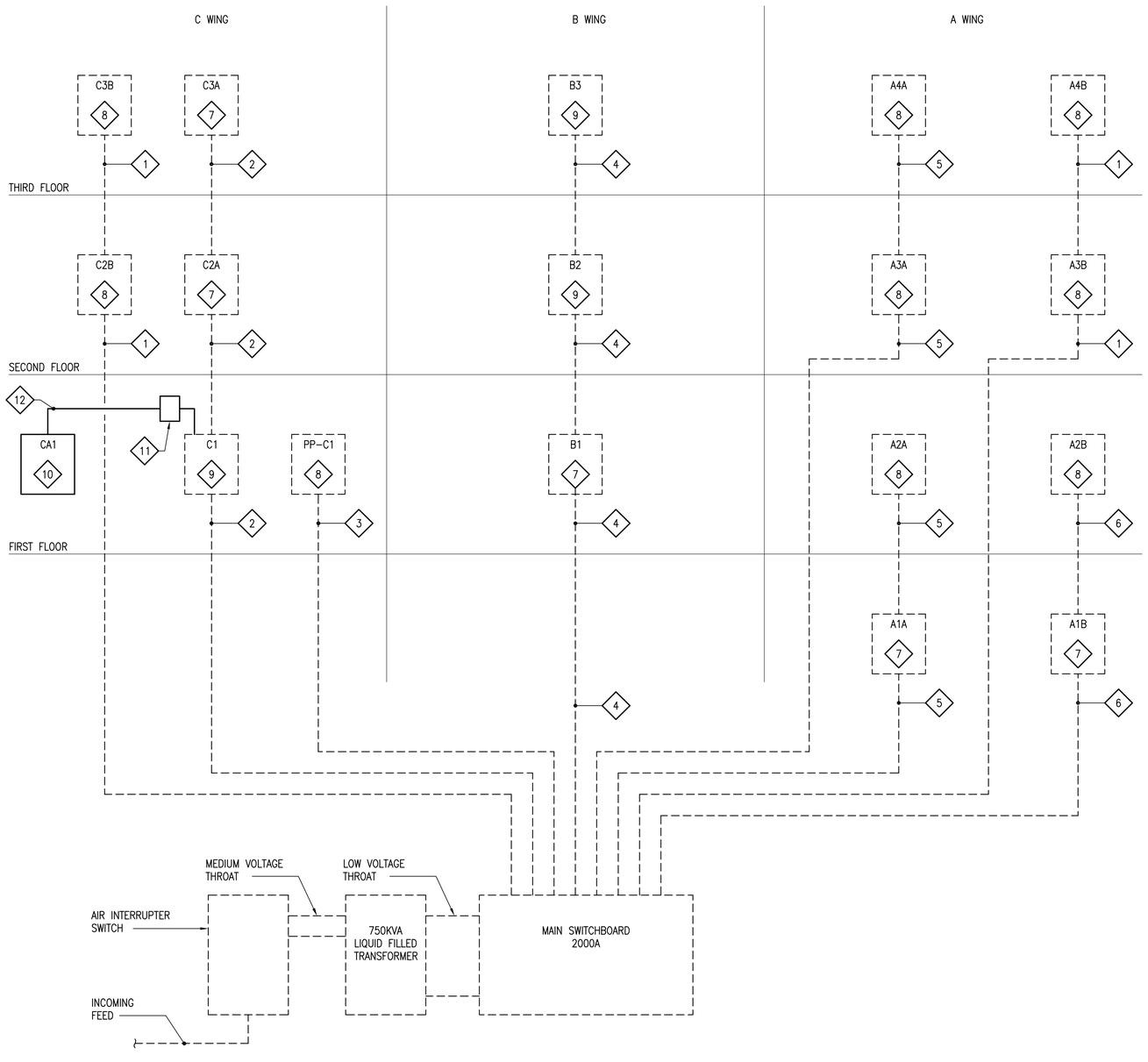
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

PANELBOARD SCHEDULES

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183072

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 88 OF 106



EXISTING POWER RISER DIAGRAM

NO SCALE

NOTES

1. 4 #400KCMIL, 3 1/2"C
2. 4 #250KCMIL, 3"C
3. 4 #4, 11/2"C
4. 4 #3/0, 2 1/2"C
5. 4 #4/0, 3"C
6. 4 #350KCMIL, 3"C
7. 200A MAIN CIRCUIT BREAKER, 208/120V, 3ø, 4W FLUSH MOUNTED PANELBOARD.
8. 200A MLO, 208/120V, 3ø, 4W FLUSH MOUNTED PANELBOARD.
9. 100A MAIN CIRCUIT BREAKER, 208/120V, 3ø, 4W FLUSH MOUNTED PANELBOARD.
10. PROVIDE 100A MLO, 208/120V, 3ø, 4W SURFACE PANELBOARD.
11. PROVIDE 8" SQUARE PULLBOX, CEILING/WALL MOUNTED.
12. PROVIDE 4#4, 1#8G, 1 1/4"C.

SEAL

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SHEET NO.
EP701

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES CA
DRWN JEF
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

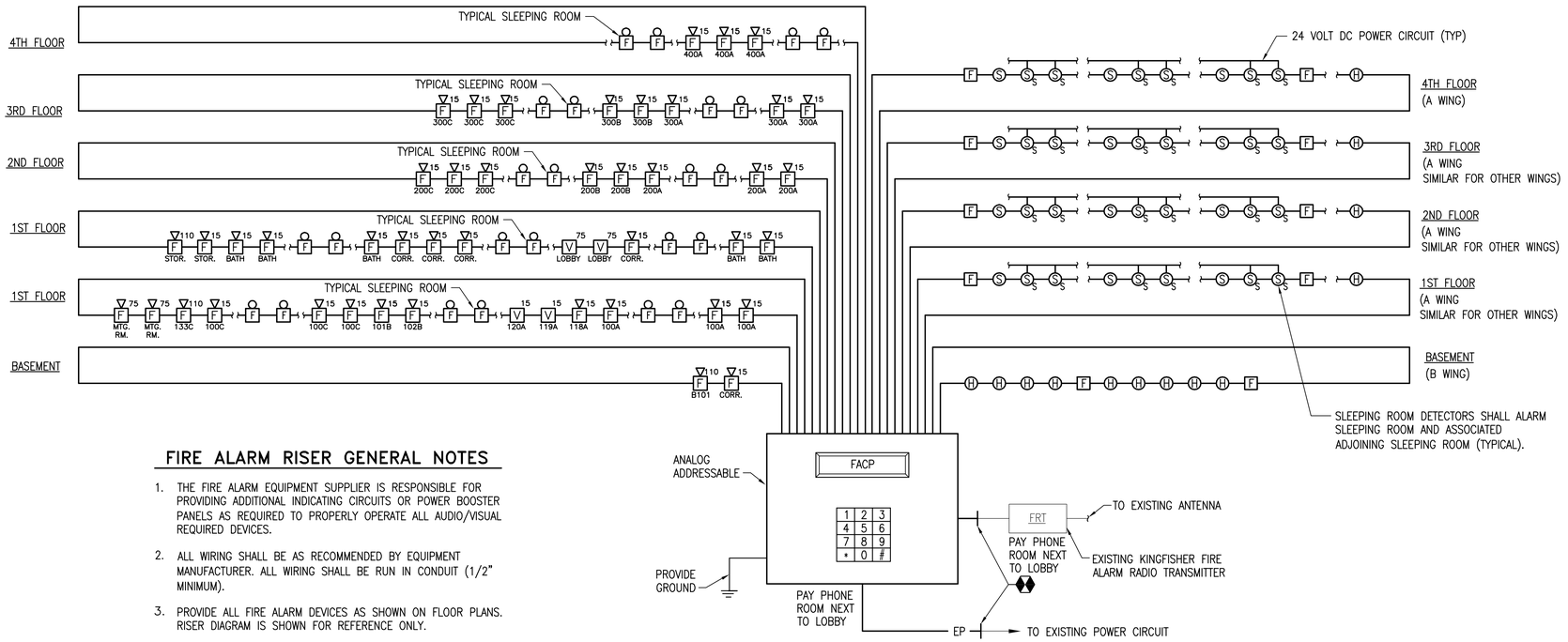
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

POWER RISER DIAGRAM

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183073

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 89 OF 106



FIRE ALARM RISER GENERAL NOTES

1. THE FIRE ALARM EQUIPMENT SUPPLIER IS RESPONSIBLE FOR PROVIDING ADDITIONAL INDICATING CIRCUITS OR POWER BOOSTER PANELS AS REQUIRED TO PROPERLY OPERATE ALL AUDIO/VISUAL REQUIRED DEVICES.
2. ALL WIRING SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER. ALL WIRING SHALL BE RUN IN CONDUIT (1/2" MINIMUM).
3. PROVIDE ALL FIRE ALARM DEVICES AS SHOWN ON FLOOR PLANS. RISER DIAGRAM IS SHOWN FOR REFERENCE ONLY.

FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE

FIRE ALARM SYSTEM SEQUENCE OF OPERATION MATRIX

INITIATION / ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	SMOKE DETECTORS IN SEMINAR/ CLASSROOM	HEAT DETECTOR	SLEEPING ROOM SMOKE DETECTOR	FACP MODULE TROUBLE
ACTIVATE FIRE ALARM HORNS AND STROBE LIGHTS ON ALL FLOORS	YES	YES	YES	YES	SEE NOTE	
DISPLAY ALARM INDICATION AT FACP	YES	YES	YES	YES	SEE NOTE	
TRANSMIT ALARM SIGNAL TO BASE FIRE DEPARTMENT	YES	YES	YES	YES		
RECORD INFORMATION ON FACP	YES	YES	YES	YES	YES	YES
DISPLAY SUPERVISION CONDITION AT FACP					YES	
ACTIVATE INTEGRAL SOUNDER BASES WITHIN ADJOINING ROOMS					YES	
TRANSMIT TROUBLE SIGNAL TO BASE FIRE DEPARTMENT						YES
SHUT DOWN ASSOCIATED AHU			YES			

NOTE: SLEEPING ROOM SMOKE DETECTORS SHALL ACTIVATE BUILDING-WIDE ALARM SIGNALS IF NOT CLEARED AFTER FIVE MINUTES OF ACTIVATION.

EXISTING FIRE ALARM TRANSMITTER SCHEDULE

ZONE	ZONE DESCRIPTION
1	ZONE – 1, 2, 3, & 4
2	ZONE – 5, 6, 7, & 8
3	ZONE – 9, 10, & 11
4	ZONE 12 & 13
5	"TR"

GENERAL NOTES

1. REMOVE ALL MULTISTATION DETECTORS AND ASSOCIATED ITEMS AND WIRING AND ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND ASSOCIATED WIRING. EXISTING CONDUIT SHALL BE REUSED AS MUCH AS POSSIBLE. MODIFY EMT CONDUIT OR WIREMOLD TO SUIT NEW DEVICES OR NEW LOCATION OF DEVICES.

GENERAL DEMOLITION NOTES

1. COORDINATE WORK WITH OTHER TRADES SO AS NOT TO DISTURB NEW OR REPAIRED FINISHES.

FIRE ALARM LEGEND

(D)	DUCT SMOKE DETECTOR WITH AUXILIARY RELAY FOR AHU SHUTDOWN
FACP	FIRE ALARM CONTROL PANEL
RDA	EXISTING ROOM MULTI STATION DETECTOR ANNUNCIATOR
F	MANUAL PULL STATION
S	EXISTING MULTI STATION SMOKE DETECTOR
H	HEAT DETECTOR, CEILING MOUNTED
V 15	STROBE UNIT W/CANDELA RATING, MOUNT 6'–8" AFF
F	MINI HORN
F 15	HORN/STROBE UNIT W/CANDELA RATING, MOUNT 6'–8" AFF
FEB	FIRE EXTINGUISHER W/BRACKET
FEC	FIRE EXTINGUISHER CABINET
FRT	FIRE ALARM RADIO TRANSMITTER
S	SYSTEM SMOKE DETECTOR, CEILING MOUNTED
S S	SMOKE DETECTOR WITH SOUNDER BASE
JB	JUNCTION BOX

PHASING NOTES

1. MODIFY ONE WING OR ONE FLOOR OF A WING AT A TIME. MAINTAIN EXISTING AND NEW FACP OPERATIONAL EXCEPT FOR MINIMAL SHUT DOWNS.

EXISTING FIRE ALARM SYSTEM ZONE SCHEDULE

ZONE	ZONE DESCRIPTION
1	FIRST FLOOR – A WING
2	SECOND FLOOR – A WING
3	THIRD FLOOR – A WING
4	FOURTH FLOOR – A WING
5	BASEMENT – B WING
6	FIRST FLOOR – B WING
7	SECOND FLOOR – B WING
8	THIRD FLOOR – B WING
9	FIRST FLOOR – C WING
10	SECOND FLOOR – C WING
11	THIRD FLOOR – C WING
12	FIRST FLOOR – D WING
13	SECOND FLOOR – D WING
14–24	SPARE

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
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CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
F–001

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

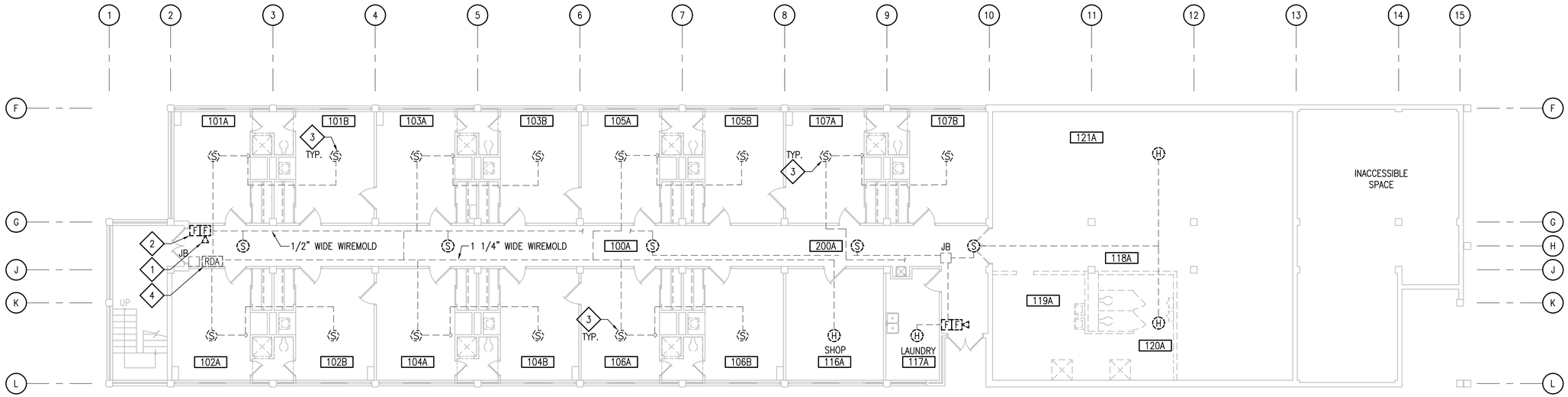
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

LEGEND, NOTES AND DETAILS

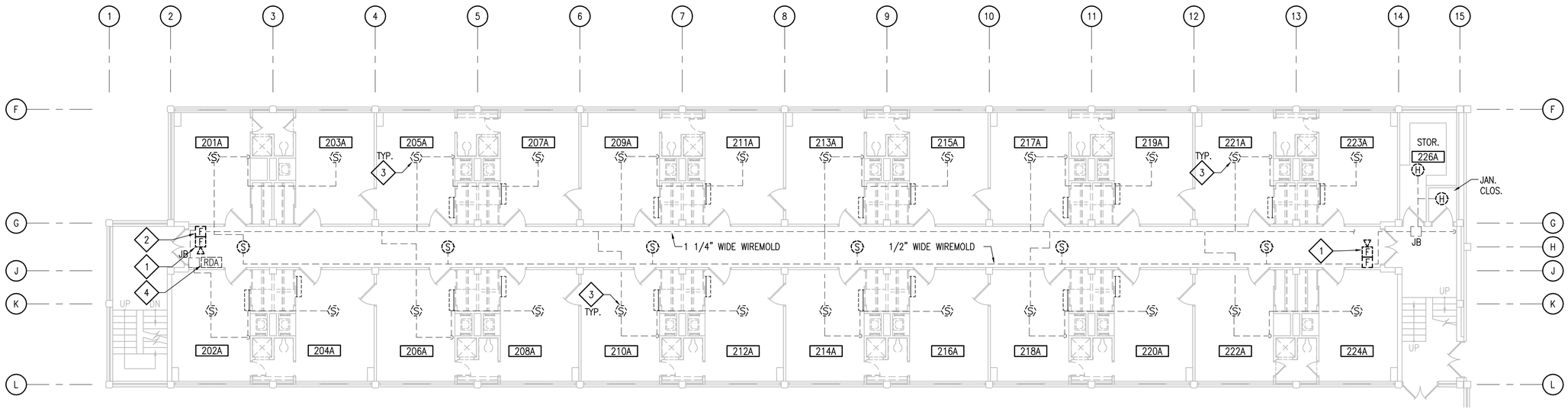
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183074

SCALE: NOTED SPEC. 21–02–1015 SHEET 90 OF 106



FIRST FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"



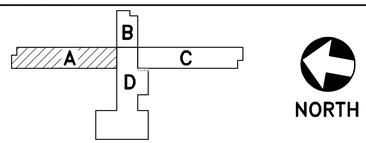
SECOND FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE FIRE ALARM A/V DEVICE.
2. REMOVE FIRE ALARM INITIATING DEVICE.
3. REMOVE ROOM MULTI-STATION SMOKE DETECTOR AND ALL ASSOCIATED WIRING.
4. REMOVE ROOM SMOKE DETECTOR ANNUNCIATOR AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

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Architecture & Engineering

SHEET NO.
FD101

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

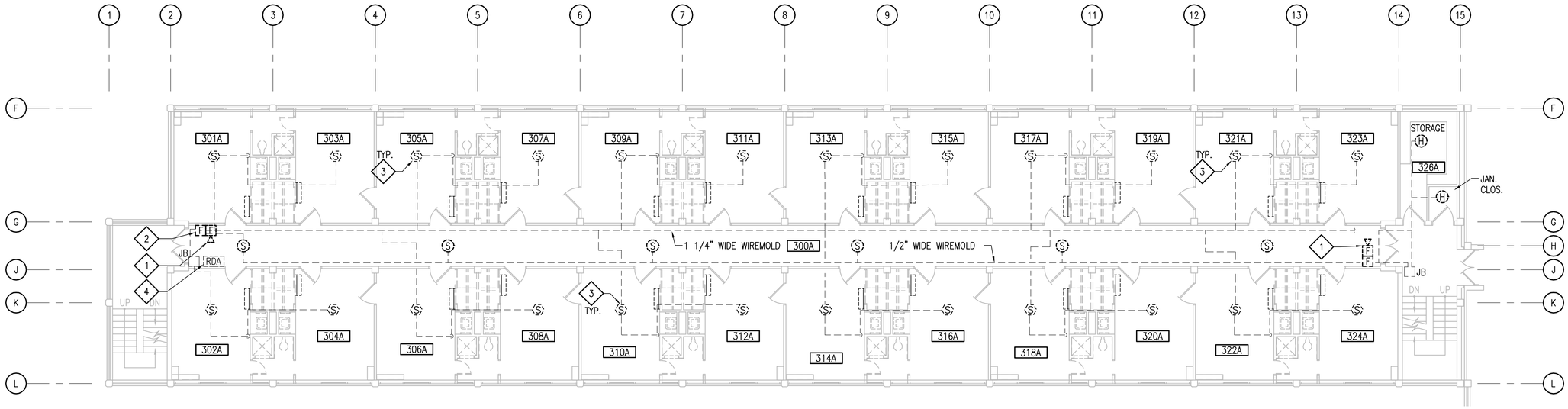
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING – DEMOLITION

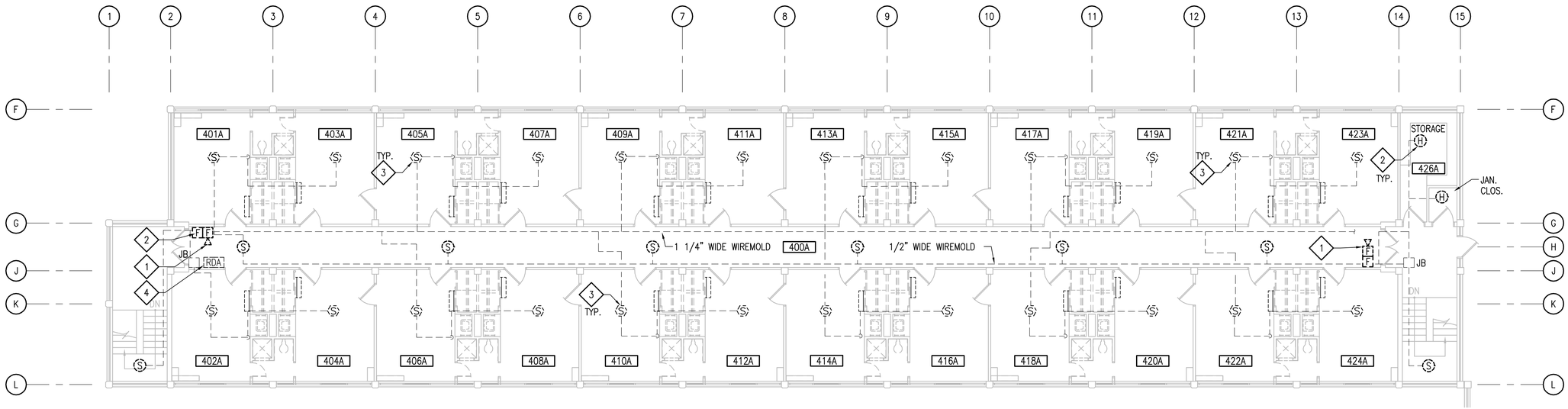
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183075

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 91 OF 106



THIRD FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"



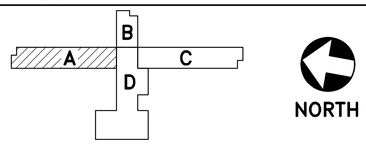
FOURTH FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE FIRE ALARM A/V DEVICE.
2. REMOVE FIRE ALARM INITIATING DEVICE.
3. REMOVE ROOM MULTI-STATION SMOKE DETECTOR.
4. REMOVE ROOM SMOKE DETECTOR ANNUNCIATOR AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
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CLARK•NEXSEN
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SHEET NO.
FD102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	SLW				
DRWN	FDJ				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

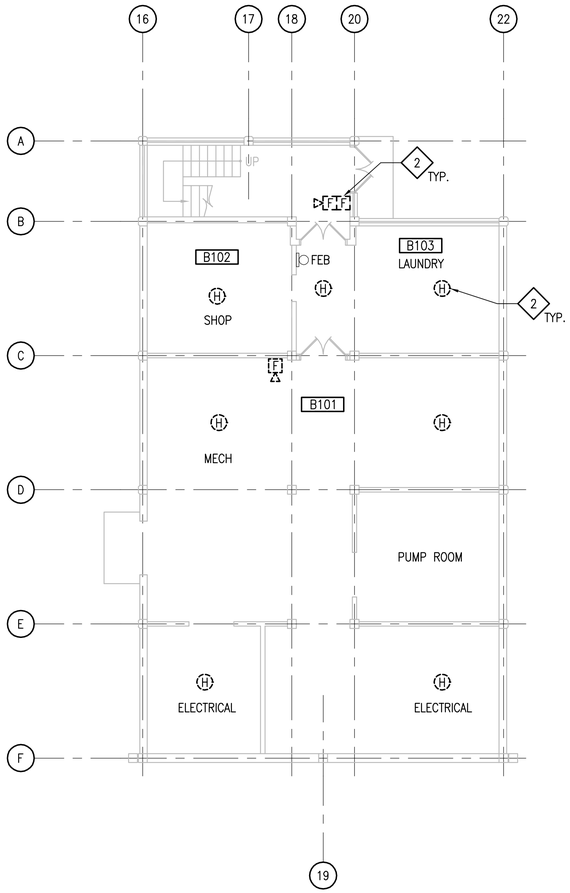
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING – DEMOLITION

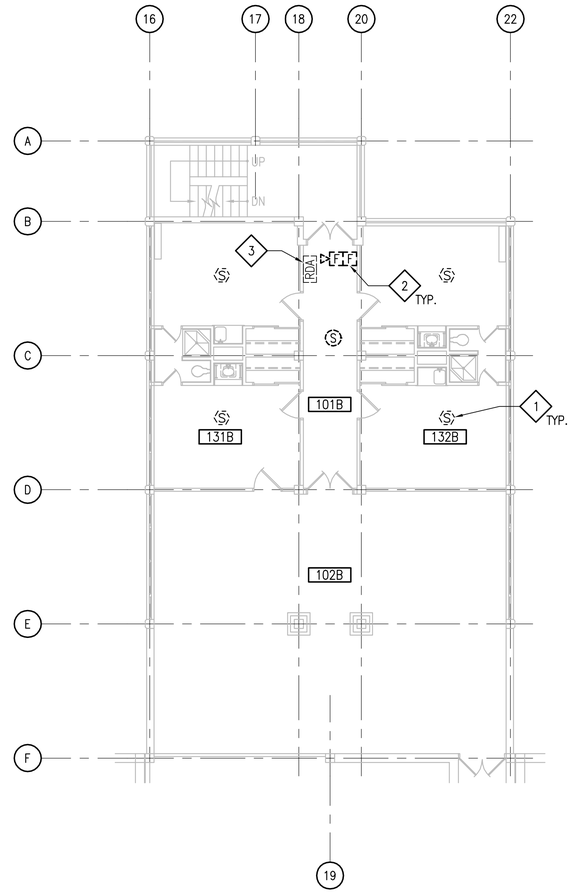
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183076

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 92 OF 106



BASEMENT FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"



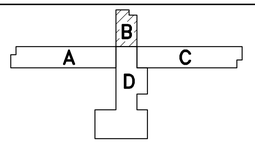
FIRST FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"

KEYNOTES

1. REMOVE MULTISTATION 120V SMOKE DETECTOR AND ALL ASSOCIATED WIRING.
2. REMOVE FIRE ALARM DEVICES AND ALL ASSOCIATED WIRING.
3. REMOVE ROOM SMOKE DETECTOR ANNUNCIATOR AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
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CLARK•NEXSEN
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SHEET NO.
FD103

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	SLW				
DRWN	FDJ				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

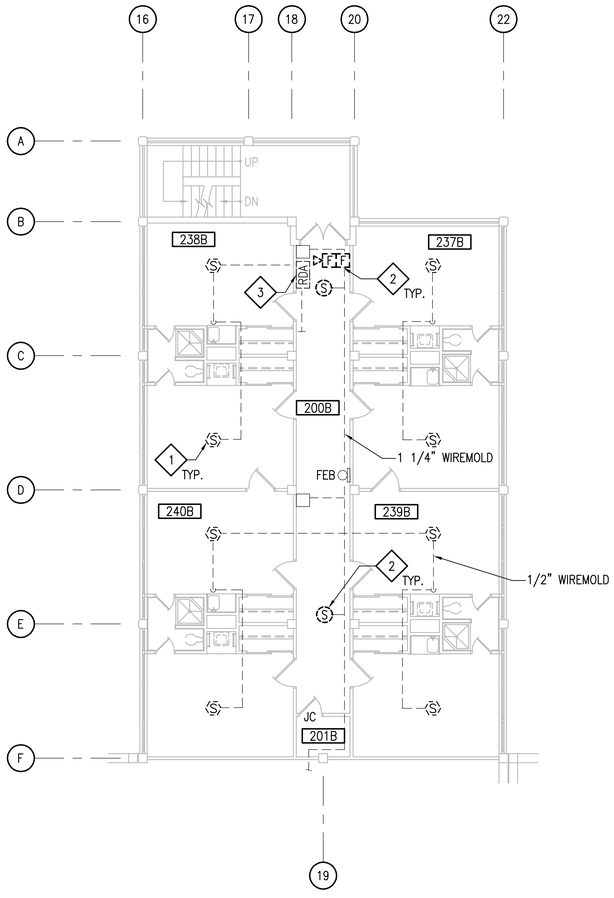
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING – DEMOLITION

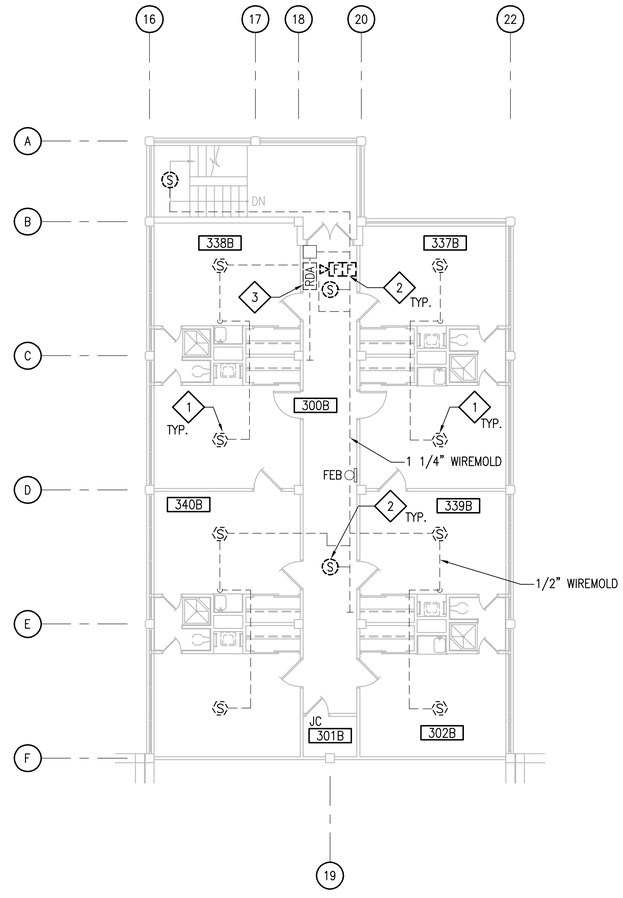
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183077

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 93 OF 106



SECOND FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'-0"



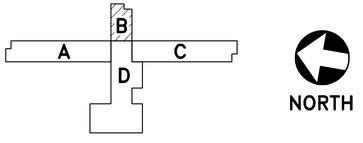
THIRD FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE MULTISTATION 120V SMOKE DETECTOR AND ALL ASSOCIATED WIRING.
2. REMOVE FIRE ALARM DEVICES AND ALL ASSOCIATED WIRING.
3. REMOVE ROOM SMOKE DETECTOR ANNUNCIATOR AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FD104

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

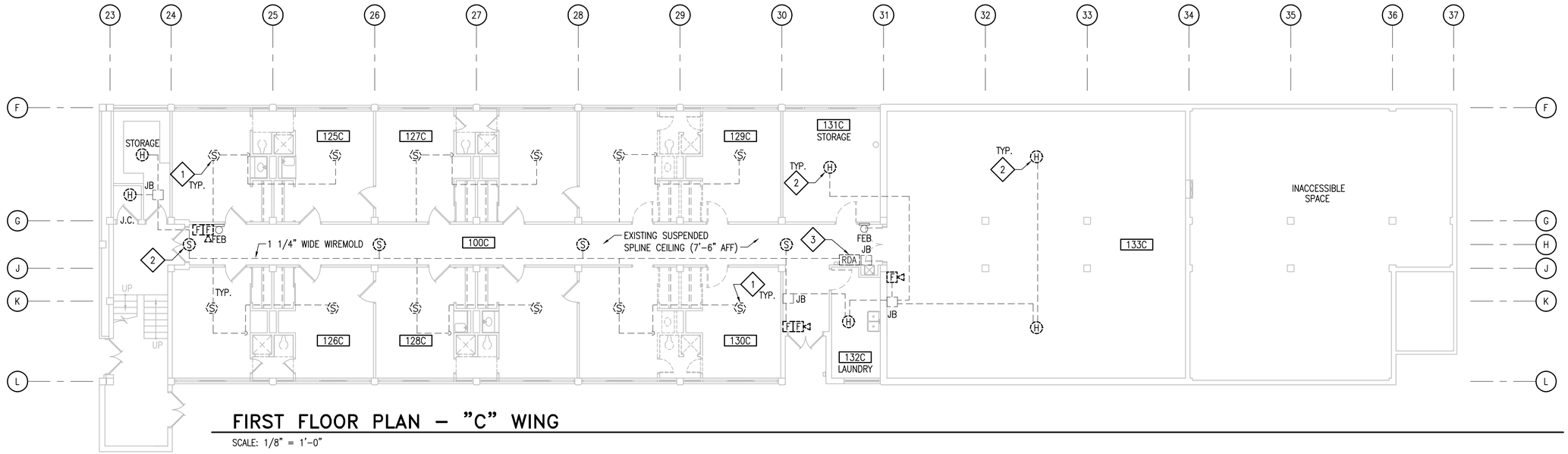
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING – DEMOLITION

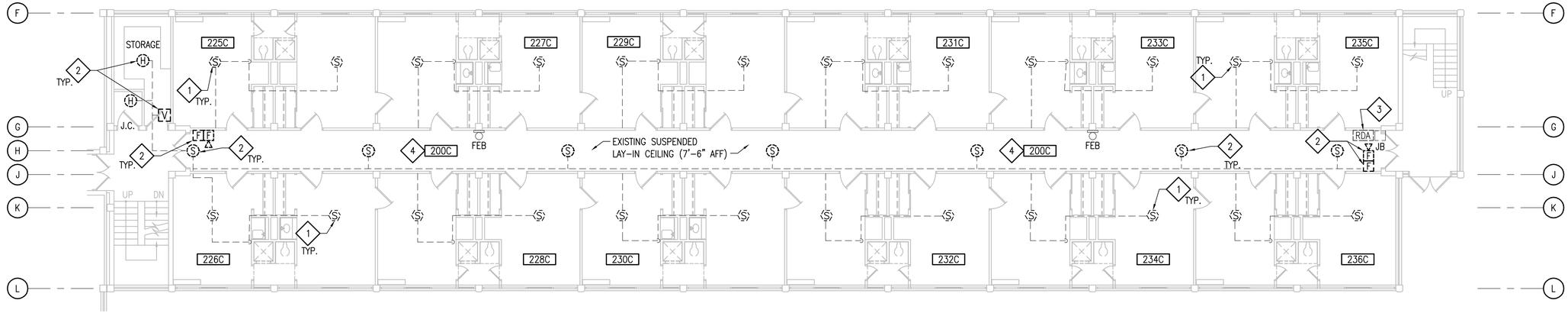
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183078

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 94 OF 106



FIRST FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"



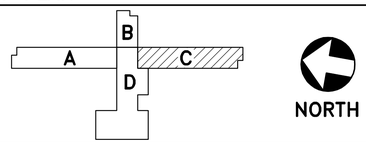
SECOND FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE MULTISTATION 120V SMOKE DETECTOR AND ALL ASSOCIATED WIRING.
2. REMOVE FIRE ALARM DEVICES AND ALL ASSOCIATED WIRING.
3. REMOVE ROOM SMOKE DETECTOR ANNUNCIATOR AND ALL ASSOCIATED WIRING.
4. ALL CONDUIT IS ABOVE SUSPENDED CEILING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FD105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES SLW
DRWN FDJ
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

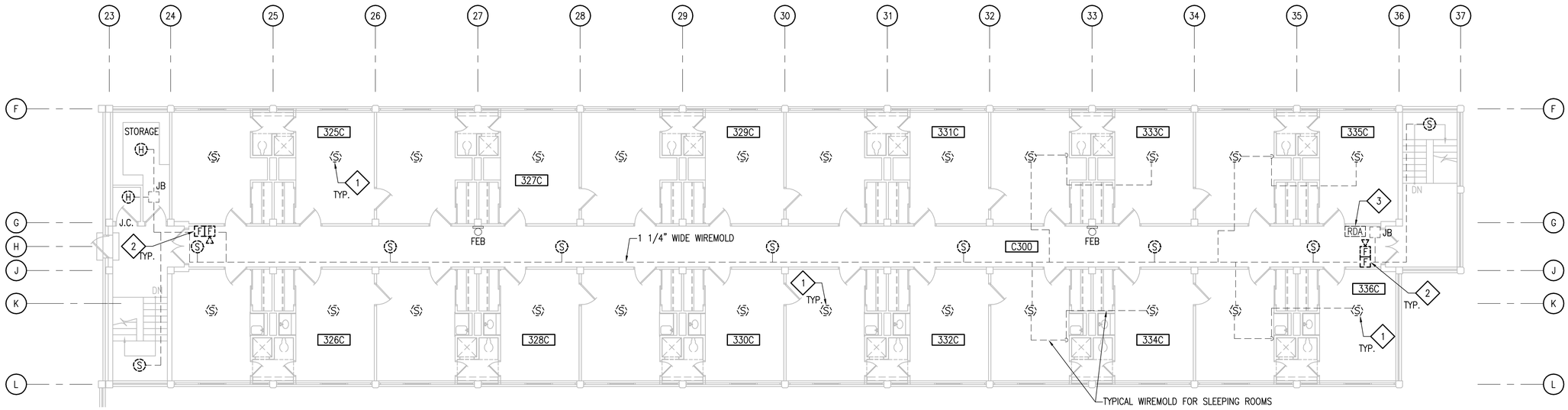
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING – DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183079

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 95 OF 106



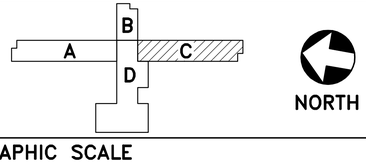
THIRD FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. REMOVE MULTISTATION 120V SMOKE DETECTOR AND ALL ASSOCIATED WIRING.
2. REMOVE FIRE ALARM DEVICES AND ALL ASSOCIATED WIRING.
3. REMOVE ROOM SMOKE DETECTOR ANNUNCIATOR AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FD106

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO: DATE
FIRE INSPECTOR

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

DES	SLW				
DRWN	FDJ				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE — QUANTICO, VIRGINIA

PUBLIC WORKS BRANCH

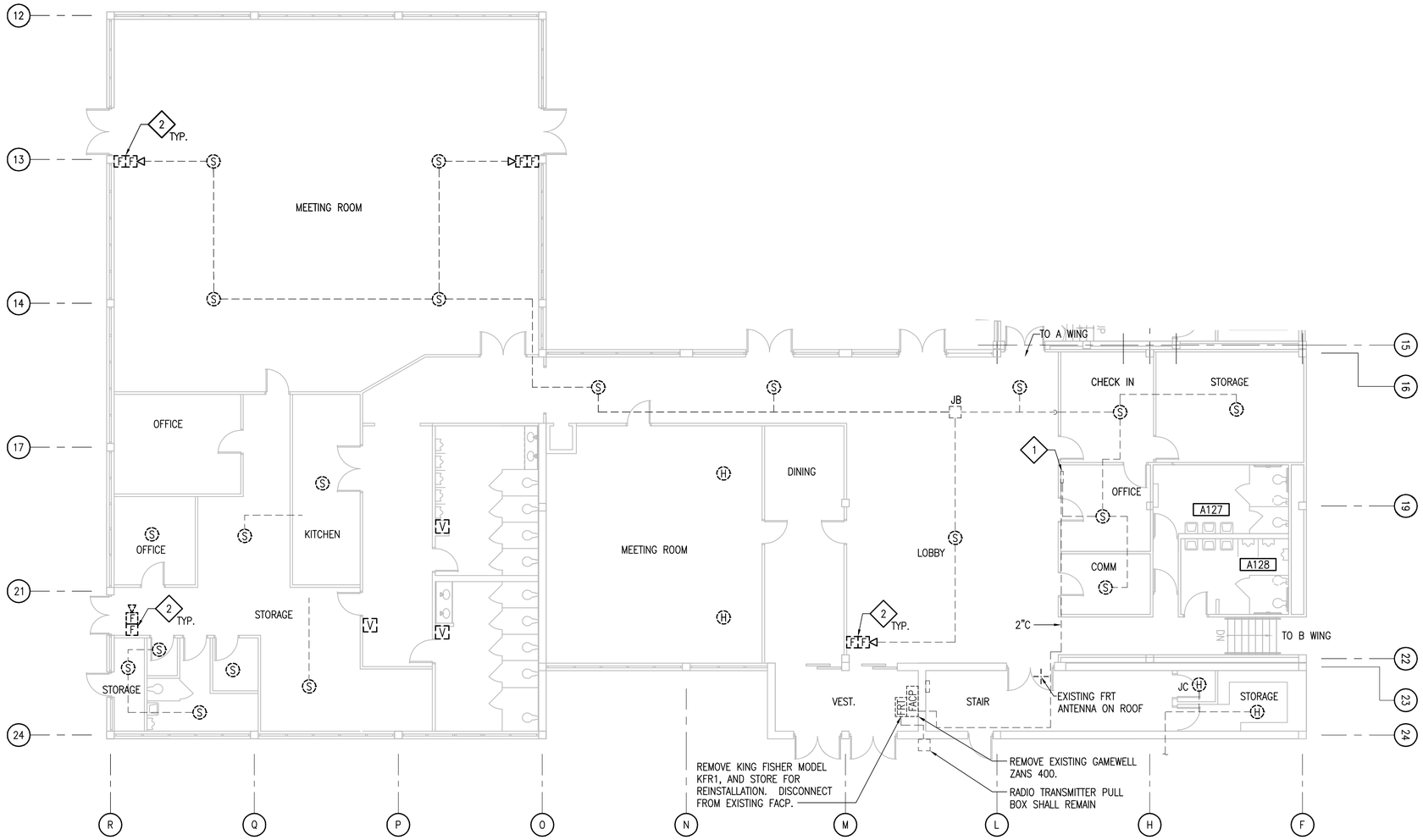
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING – DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183080

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 96 OF 106



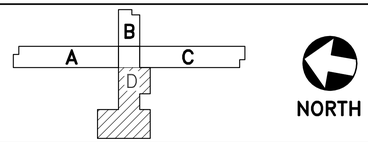
FIRST FLOOR PLAN – "D" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. EXISTING 18"X18"X4" JUNCTION BOX – ALL EXISTING ZONE WIRING AND CONDUIT FEEDS THIS BOX AND 1-2"C FEEDS FACP.
2. REMOVE FIRE ALARM DEVICES AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FD107

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO:
FIRE INSPECTOR

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

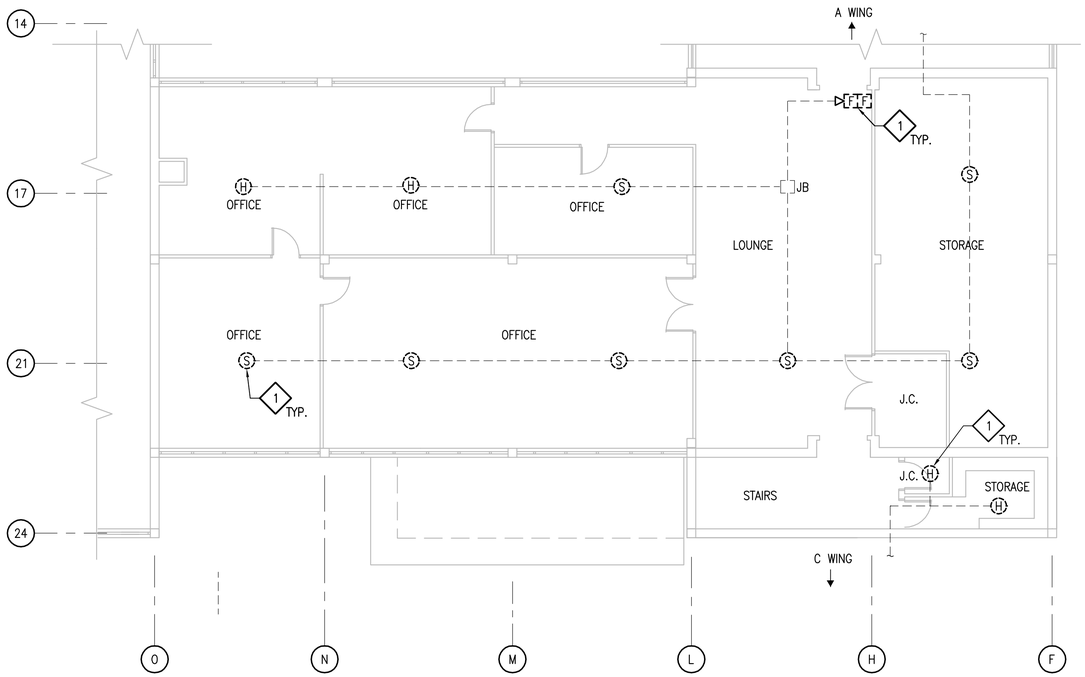
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST FLOOR PLAN – "D" WING – DEMOLITION

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183081

SCALE: NOTED SPEC. 21-02-1015 SHEET 97 OF 106



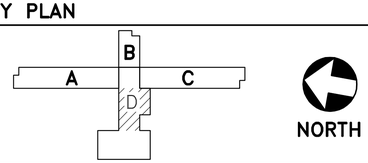
SECOND FLOOR PLAN – "D" WING

SCALE: 1/8" = 1'–0"

KEYNOTES

1 REMOVE FIRE ALARM DEVICES AND ALL ASSOCIATED WIRING.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FD108

SATISFACTORY TO: DATE
ROICC

SATISFACTORY TO: DATE
SAFETY

SATISFACTORY TO:
CUSTOMER

SATISFACTORY TO:
FIRE INSPECTOR

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: DATE
PWO / OICC

SATISFACTORY TO: DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

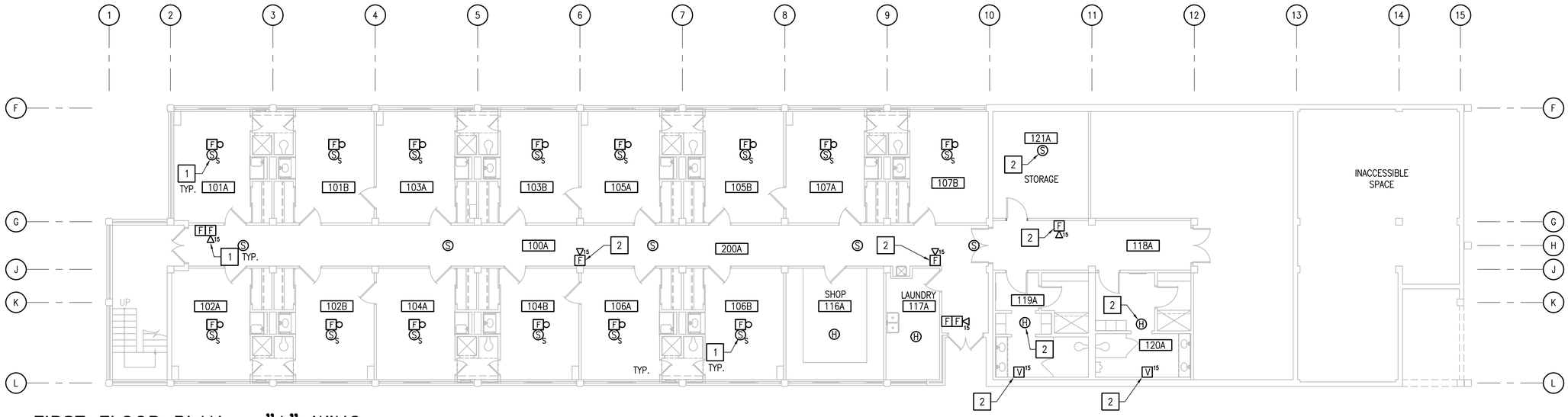
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND FLOOR PLAN – "D" WING – DEMOLITION

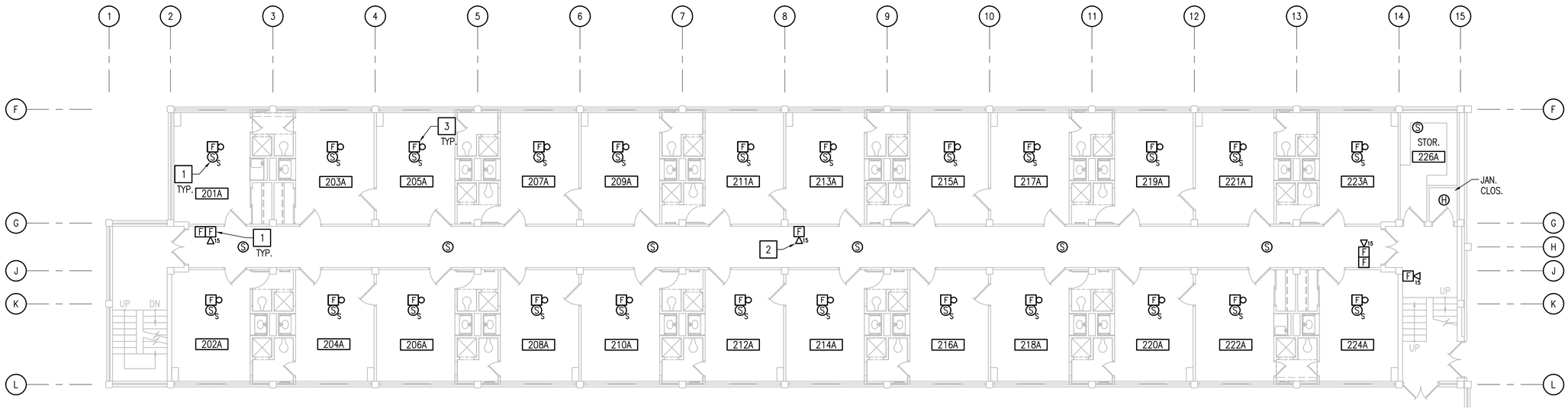
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082

SCALE: NOTED SPEC. 21-02-1015 SHEET 98 OF 106



FIRST FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"



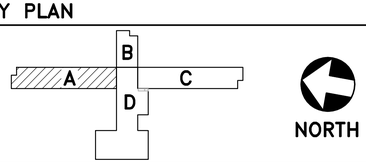
SECOND FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK·NEXSEN
Architecture & Engineering

SHEET NO.
FP101

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: _____ DATE
ROICC

SATISFACTORY TO: _____ DATE
SAFETY

SATISFACTORY TO: _____ DATE
CUSTOMER

SATISFACTORY TO: _____ DATE
FIRE INSPECTOR

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: _____ DATE
DIRECTOR ENGINEERING DIV.

SATISFACTORY TO: _____ DATE
PWO / OICC

SATISFACTORY TO: _____ DATE
FACILITIES MAINTENANCE OFFICER

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE QUANTICO, VIRGINIA

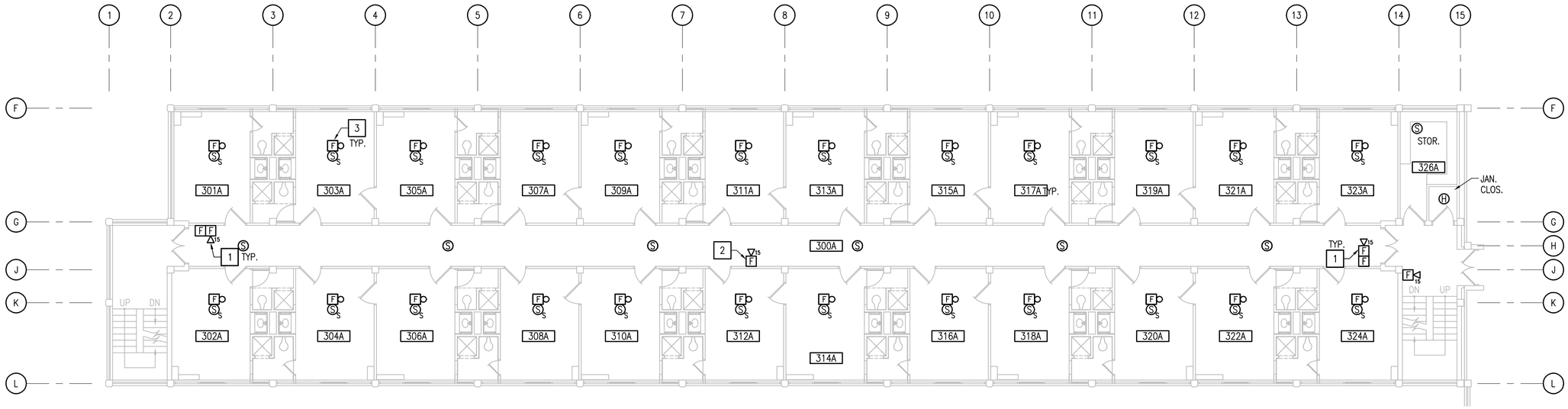
LIVERSEDGE HALL BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "A" WING

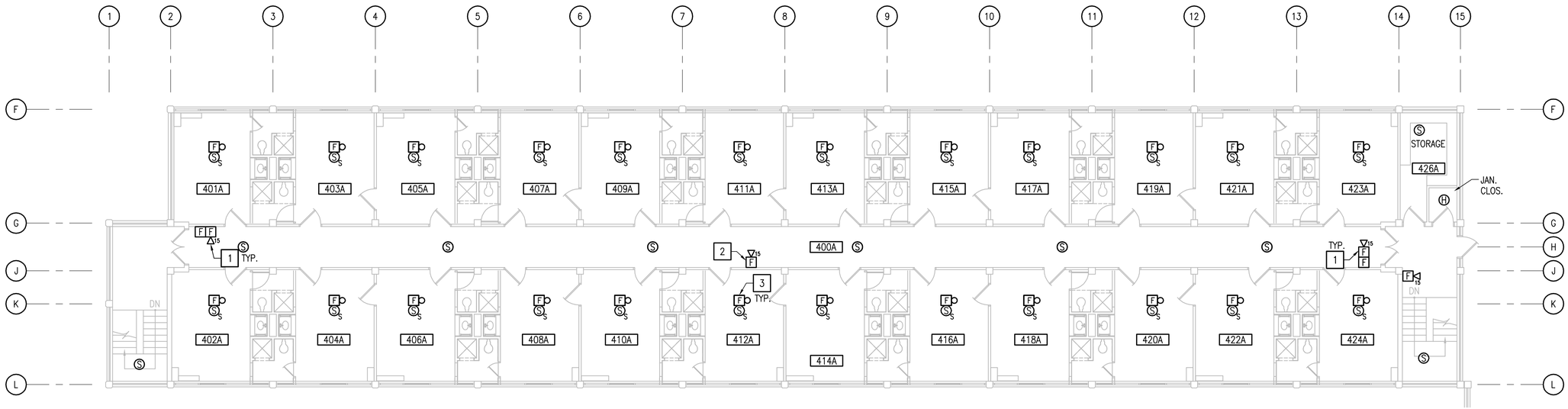
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082A

SCALE: NOTED SPEC. 21-02-1015 SHEET 99 OF 106



THIRD FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"



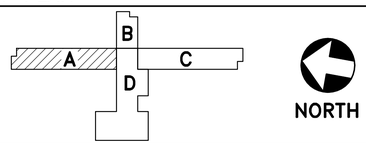
FOURTH FLOOR PLAN – "A" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK·NEXSEN
Architecture & Engineering

SHEET NO.
FP102

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER — DATE
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES SLW
DRWN FDJ
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

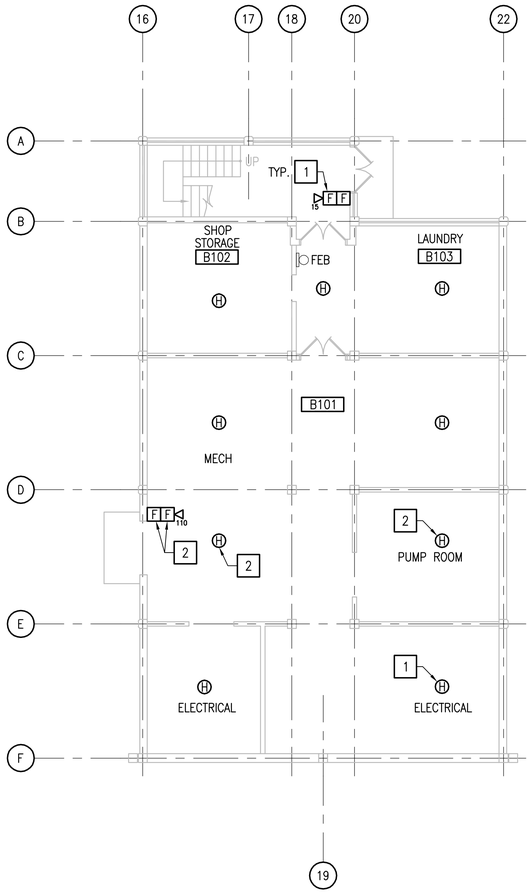
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD AND FOURTH FLOOR PLAN – "A" WING

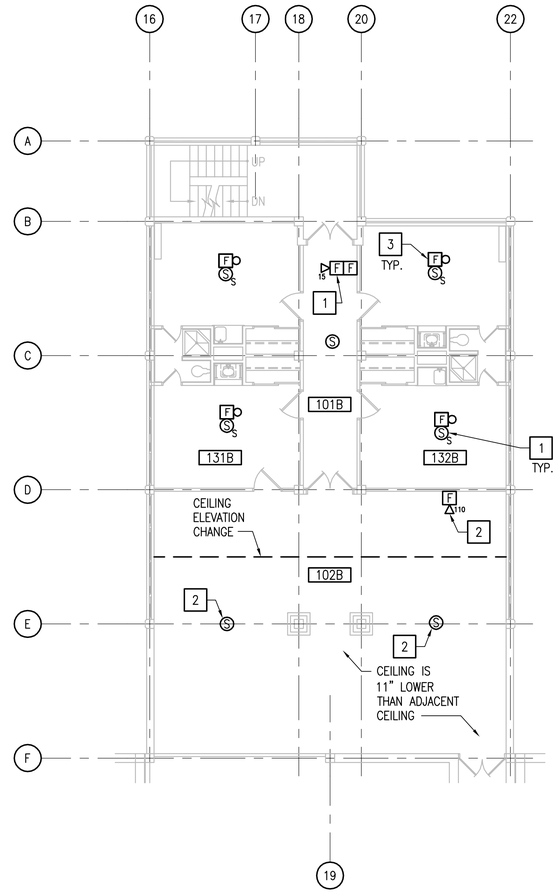
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082B

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 100 OF 106



BASEMENT FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"



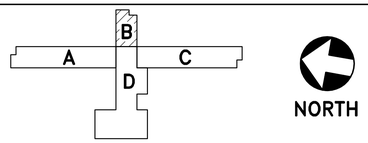
FIRST FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'–0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'–0"

0 5' 10' 15' 30'

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FP103

SEAL
COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES SLW
DRWN FDJ
CHECKED ARCH WHH; ELEC JRW; MECH JLD; CIVIL RLB; CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

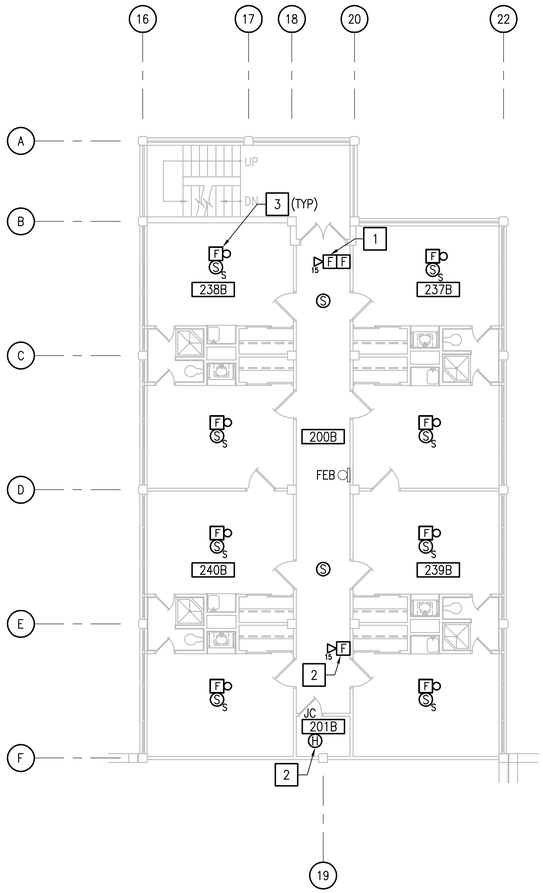
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

BASEMENT AND FIRST FLOOR PLAN – "B" WING

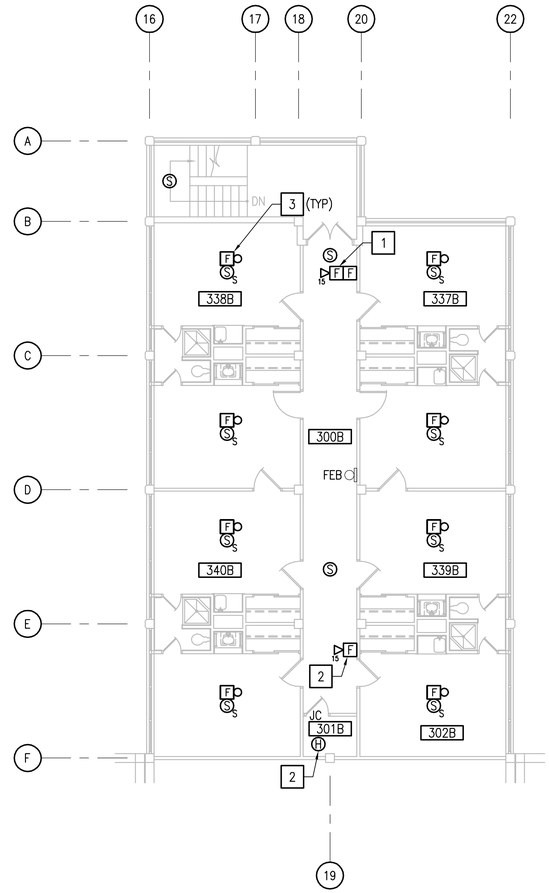
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082C

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 101 OF 106



SECOND FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'-0"



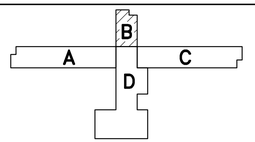
THIRD FLOOR PLAN – "B" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
No. 14988
PROFESSIONAL ENGINEER

CLARK•NEXSEN
Architecture & Engineering

SHEET NO.
FP104

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	SLW				
DRWN	FDJ				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: ROICC	DATE
SATISFACTORY TO: SAFETY	DATE
SATISFACTORY TO: CUSTOMER	
SATISFACTORY TO: FIRE INSPECTOR	
SATISFACTORY TO: DIRECTOR ENGINEERING DIV.	DATE
SATISFACTORY TO: PWO / OICC	DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER	DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

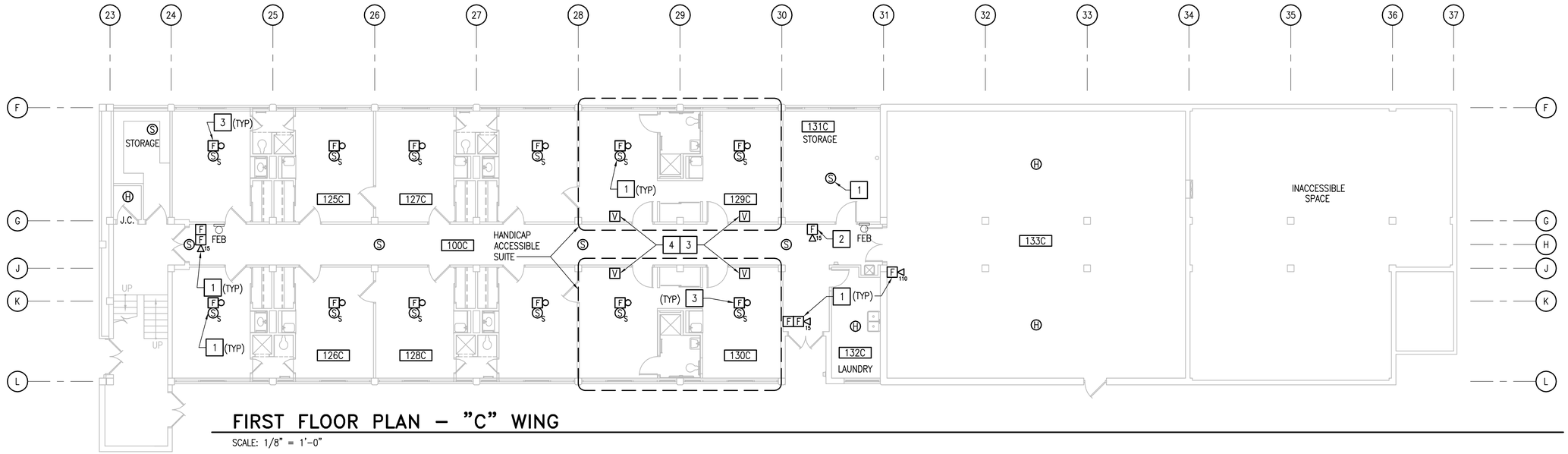
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND AND THIRD FLOOR PLAN – "B" WING

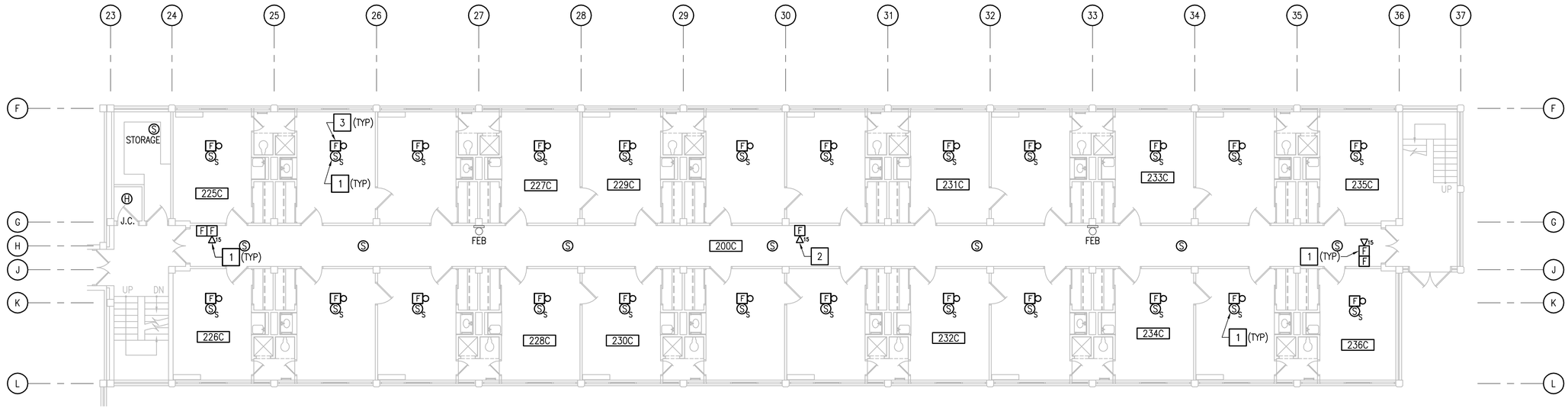
SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082D

SCALE: NOTED — SPEC. 21-02-1015 — SHEET 102 OF 106



FIRST FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"



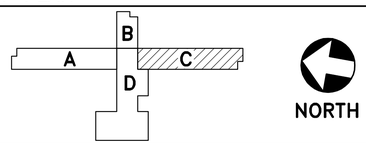
SECOND FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.
4. STROBE SHALL ACTIVATE UPON ROOM SMOKE ALARM OR UPON BUILDING FIRE ALARM.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
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PROFESSIONAL ENGINEER

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SHEET NO.
FP105

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES	SLW				
DRWN	FDJ				
CHECKED	ARCH WHH	ELEC JRW	MECH JLD	CIVIL RLB	
	CONST JVA				

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

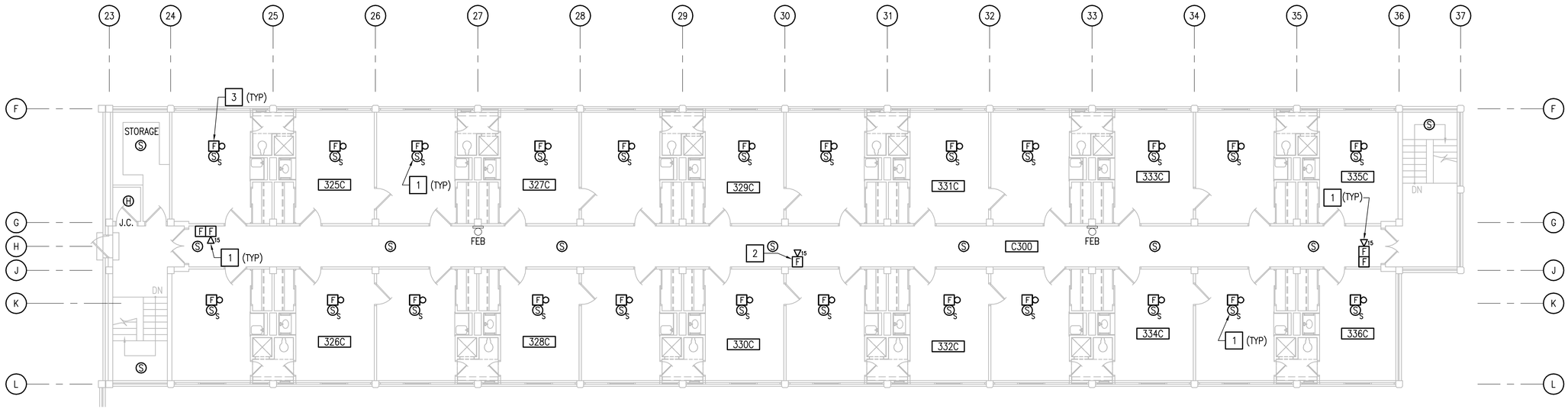
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST AND SECOND FLOOR PLAN – "C" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082E

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 103 OF 106



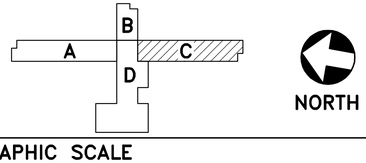
THIRD FLOOR PLAN – "C" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
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SHEET NO.
FP106

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

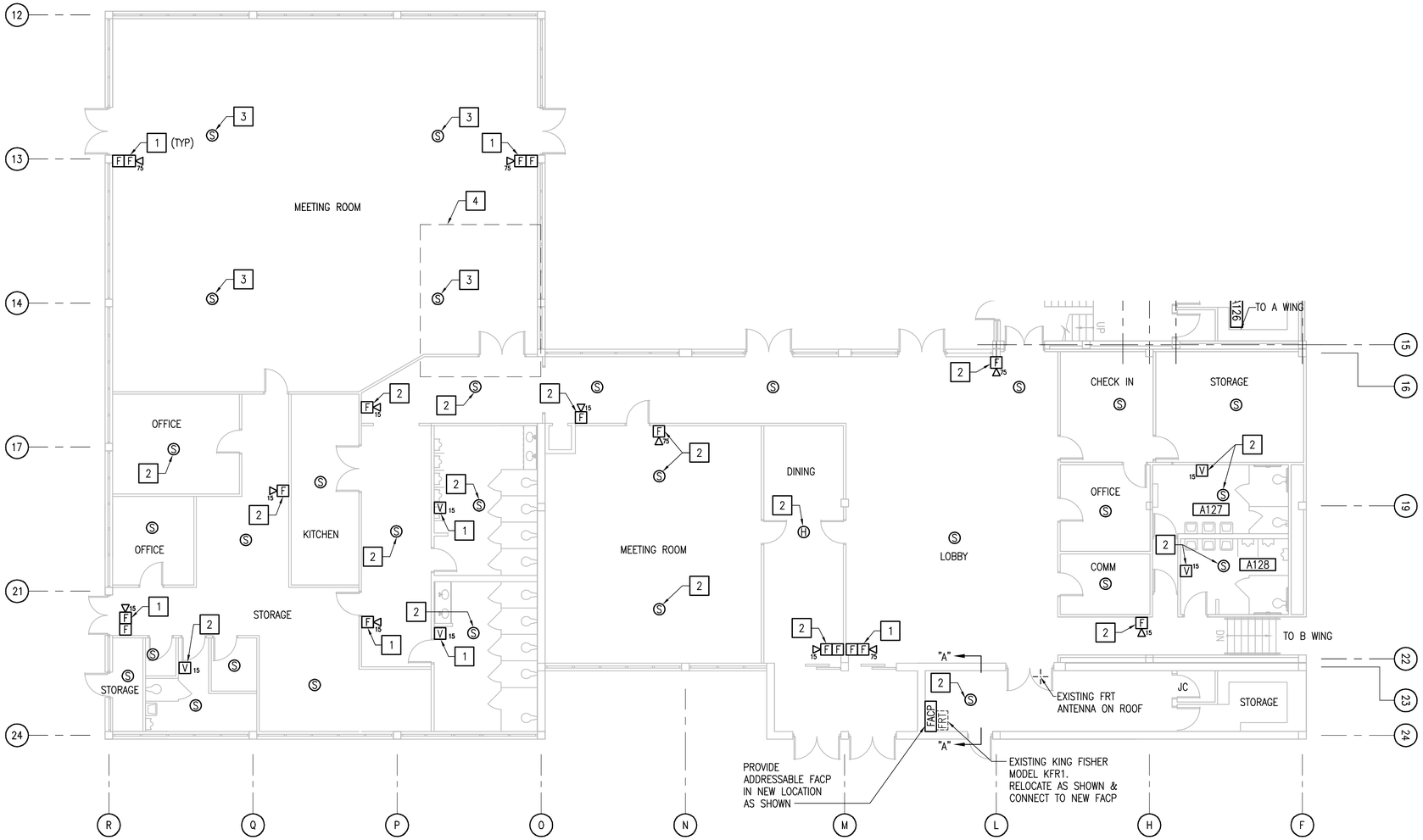
DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

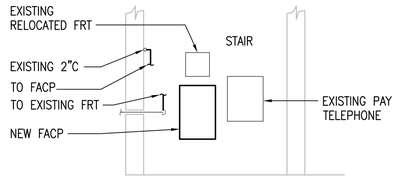
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

THIRD FLOOR PLAN – "C" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082F
SCALE: NOTED	SPEC. 21-02-1015	SHEET 104 OF 106	





ELEVATION "A"–"A"

SCALE: 1/4"=1'-0

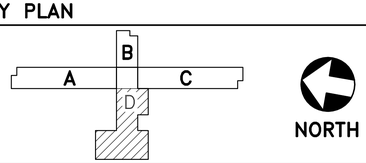
FIRST FLOOR PLAN – "D" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.
4. EXISTING AHU ON ROOF. AHU SHALL SHUT DOWN UPON ACTIVATION OF AREA SMOKE DETECTORS IN MEETING ROOM.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0" 0 5' 10' 15' 30'

SEAL

COMMONWEALTH OF VIRGINIA
STEVEN L. WILLIAMS
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Architecture & Engineering

SHEET NO. FP107

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE
SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
SATISFACTORY TO: FACILITIES MAINTENANCE OFFICER — DATE

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
PUBLIC WORKS BRANCH
MARINE CORPS BASE — QUANTICO, VIRGINIA

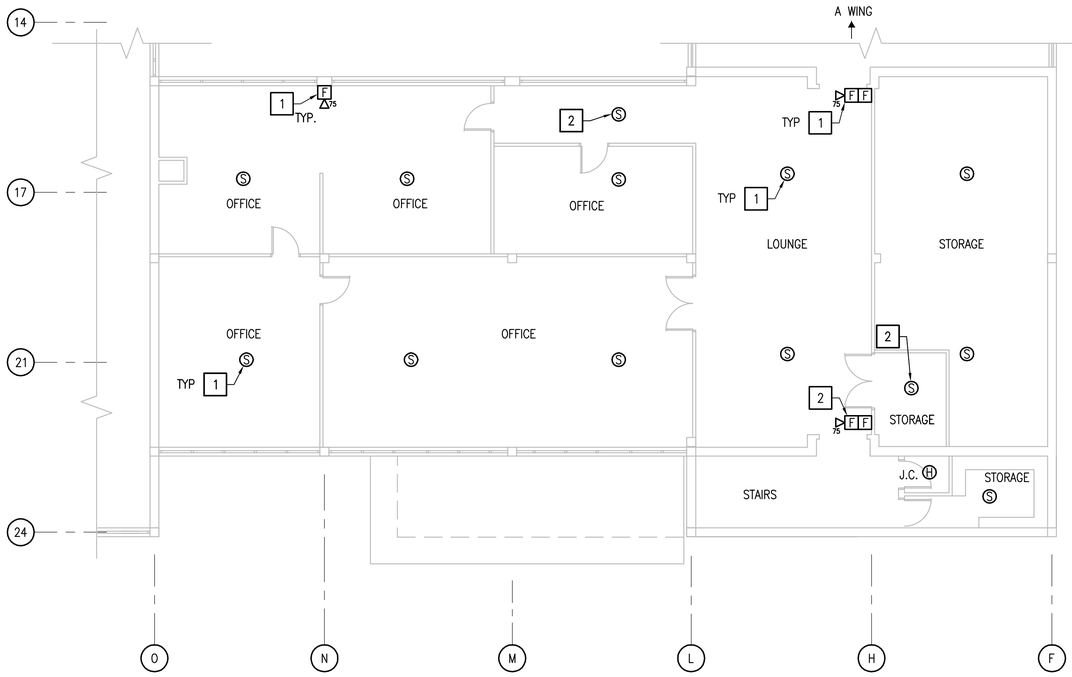
LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

FIRST FLOOR PLAN – "D" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082G

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 105 OF 106



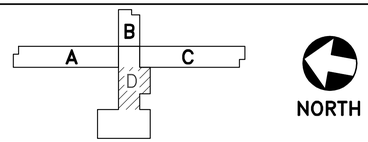
SECOND FLOOR PLAN – "D" WING

SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE FIRE ALARM DEVICE UTILIZING EXISTING CONDUIT AND OUTLET BOX.
2. PROVIDE FIRE ALARM DEVICE. PROVIDE WIREMOLD/CONDUIT FOR CONNECTION TO EXISTING WIREMOLD/CONDUIT.
3. MODIFY WIREMOLD AND PROVIDE OUTLET BOX FOR FIRE ALARM DEVICE.

KEY PLAN



GRAPHIC SCALE

1/8" = 1'-0"

0 5' 10' 15' 30'

SEAL

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SHEET NO.
FP108

SYMBOL	DESCRIPTION	DATE	APPROVED
	REVISIONS		

SATISFACTORY TO: ROICC — DATE
SATISFACTORY TO: SAFETY — DATE
SATISFACTORY TO: CUSTOMER
SATISFACTORY TO: FIRE INSPECTOR — DATE

DES SLW
DRWN FDJ
CHECKED ARCH WHH | ELEC JRW | MECH JLD | CIVIL RLB | CONST JVA

SATISFACTORY TO: DIRECTOR ENGINEERING DIV. — DATE
SATISFACTORY TO: PWO / OICC — DATE
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
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LIVERSEDGE HALL — BUILDING 15

REPAIR AND IMPROVE BATHROOMS AT LIVERSEDGE HALL BUILDING 15

SECOND FLOOR PLAN – "D" WING

SIZE	CODE IDENT NO.	CONTRACT NO.	NAVFAC DRAWING NO.
D	80091	N62477-02-C-1015	3183082H

SCALE: NOTED | SPEC. 21-02-1015 | SHEET 106 OF 106